HITACHI
Inspire the Next

SERVICE MANUAL

PA **No. 0187**

42HDT51M: PT5-G Chassis
55HDT51M: PW1-H Chassis
AVC75: AVC5-U Chassis

NTSC

PT5-G/PW1-H
AVC5-U Chassis

R/C: CLU-3841WL

TO GO TO A CHAPTER, CLICK ON ITS HEADING BELOW

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QUICK REFERENCE PARTS LIST 130

CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Before servicing this chassis, it is important that the service technician read the “IMPORTANT SAFETY INSTRUCTIONS” in this service manual.

SAFETY NOTICE
USE ISOLATION TRANSFORMER WHEN SERVICING

Components having special safety characteristics are identified by a ⚠ on the schematics and on the parts list in this Service Data and its supplements and bulletins. Before servicing the chassis, it is important that the service technician read and follow the “Important Safety Instructions” in this Service Manual.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

PLASMA DISPLAY PANEL

JUNE 2004
Version 0187.2

HHEA-MANUFACTURING DIVISION

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety-related notes located on or inside the cover case and on the chassis or plasma module.

WARNING: Since the chassis of the AVC unit and Plasma Panel unit is connected to both sides of the AC power supply during operation, whenever the receiver is plugged in, service should not be attempted by anyone unfamiliar with the precautions necessary when working on this type of receiver.

1. When service is required, an isolation transformer should be inserted between power line and the receiver before any service is performed on a “HOT” chassis receiver.

2. When replacing a chassis in the receiver, all the protective devices must be put back in place, such as barriers, non-metallic knobs, insulating cover-shields, and isolation resistors, capacitors, etc.

3. When service is required, observe the original lead dress.

4. Always use manufacturer’s replacement components. Critical components as indicated on the circuit diagram should not be replaced by another manufacturer’s. Furthermore, where a short circuit has occurred, replace those components that indicate evidence of over heating.

5. Before returning a serviced receiver to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the receiver by the manufacturer has become defective, or inadvertently defeated during servicing.

Therefore, the following checks should be performed for the continued protection of the customer and service technician.

Leakage Current Cold Check

With the AC plug removed from the 120V AC 60Hz source, place a jumper across Line 1 and Line 2 of the three plug prongs, do not connect with the third prong, which is physical ground.

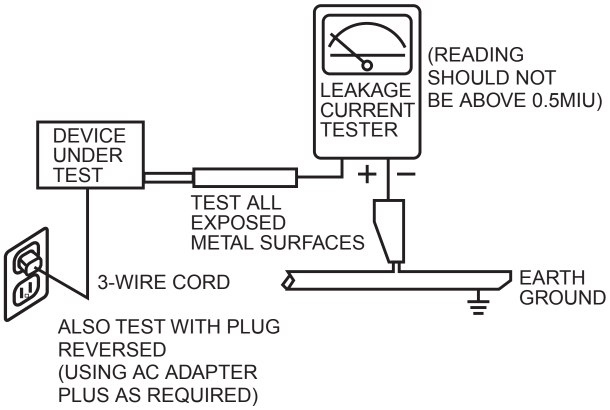
Using an insulation tester (DC500V), connect one of its leads to the AC plug jumper and touch with the other lead each exposed metal part (antennas, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis should have a resistor reading over 4MΩ. Any resistance value below this range indicates an abnormality which requires corrective action. An exposed metal part not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

This check must be done considering the AVC or the PDP monitor as one instrument each.

With any of the instruments completely reassembled (being the instrument either the AVC center or the PDP monitor), plug the AC line cord directly into a 120V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with the American National Standards Institute (ANSI) C101.0 Leakage Current for Appliances. In the case of the PDP monitor set the AC switch first in the ON position and then in the OFF position, measure from across Line 1 and Line 2 of the three plug prongs, do not connect with the third prong, which is physical ground, to all exposed metal parts of the instrument (antennas, handle bracket, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 MIU. Reverse the instrument power cord plug in the outlet and repeat test.

AC LEAKAGE TEST


LEAKAGE
CURRENT
TESTER
(READING SHOULD NOT BE ABOVE 0.5MIU)
DEVICE UNDER TEST
+
−
TEST ALL EXPOSED METAL SURFACES
3-WIRE CORD
EARTH GROUND
ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUS AS REQUIRED)

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE RECEIVER TO THE CUSTOMER.

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PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in HITACHI television receivers have special safety-related characteristics. These are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified with a ⚠ mark in the schematics and parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the HITACHI-recommended replacement component, shown in the parts list in this Service Manual, may create shock, fire, X-radiation, or other hazards.

Product safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current HITACHI Service Manual. A subscription to, or additional copies of HITACHI Service Manuals may be obtained at a nominal charge from HITACHI Sales Corporation.

AVC75 - Audio Video Control Unit

1. Follow the general caution recommendations from “Safety precautions” section.

42HDT51M - Plasma Monitor Unit
55HDT51M - Plasma Monitor Unit

1. Follow the general caution recommendations from “Safety precautions” section.
2. Since the Panel module and front filter are made of glass, sufficient care shall be taken when handling the broken module and filter in order to avoid injury.
3. If necessary to replace Panel module, this work must be started after the panel module and the AC/DC Power supply becomes sufficiently cool.
4. Special care must be taken with the display area to avoid damaging its surface.
5. The Panel Module shall not be touched with bare hands to protect its surface from stains.
6. It is recommended to use clean soft gloves during the replacing work of the Panel module in order to protect, not only the display area of the panel module but also the serviceman.
7. The Chip Tube of the panel module (located upper left of the back of the panel module) and flexible cables connecting Panel glasses to the drive circuitry Printed Wiring Boards (P.W.B.) are very weak, so sufficient care must be taken to prevent breaking or cutting any of these. If the Chip Tube breaks the panel module will never work, replacement for a new plasma panel module will be needed.
8. Signal, power supply P.W.B.’s and PDP driving circuits P.W.B.’s are assembled on the rear side of the PDP module, take special care with this fragile circuitry; particularly, Flexible Printed Circuits bonded to surrounding edges of the glass panel. They are not strong enough to withstand harsh outer mechanical forces. Avoid touching the flexible printed circuits by not only your hands, but also tools, chassis, or any other object. Extreme bending of the connectors must be avoided too. In case the flexible printed circuits are damaged, the corresponding addressed portions of the screen will not be lit and exchange of a glass panel will be required.

PDP Module Handling

When there is need to replace a broken PDP module which is the displaying device from the Plasma monitor unit, consider the following:

1. When carrying the PDP module, two persons should stand at both shorter-edge sides of the glass-panel and transport it with their palms. Avoid touching the Flexible Printed Circuits or the chip tube on the corner of the glass-panel. Handle only by the surface of the glass panel. In case of some PDP modules, electrode repair is done by connecting between regular terminal with Cu tape and Cu wire. Please do not hook and/or damage this repair line. If it is damaged, the module will not function unless the glass-panel is exchanged with a new glass-panel.
2. When carrying PDP module, watch surrounding objects, such as tables, and also do not carry it alone since it may be dangerous and it will be damaged due to excessive stress to the module (glass-panel).
3. Please do not stand the module with the edge of the glass-panel on the table since this might result in damage to the glass-panel and/or flexible printed circuits due to excessive stress to the module (glass-panel).

WARNING
Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health and Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with solder. Also, when soldering make sure you are in a well ventilated area in order to avoid inhalation of any smoke or fumes released.

SAFETY NOTICE
USE ISOLATION TRANSFORMER
WHEN SERVICING

POWER SOURCE

This plasma television and the AVC Center is designed to operate on 120 Volts/60Hz, AC house current. Insert the power cord into a 120 Volts/60Hz outlet.

NEVER CONNECT THE PLASMA AND THE AVC CENTER TO OTHER THAN THE SPECIFIED VOLTAGE OR TO DIRECT CURRENT AND TO 50HZ. TO PREVENT ELECTRIC SHOCK, DO NOT USE THE PLASMA TELEVISION’S (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR THE OUTLETS UNLESS THE BLADES AND GROUND TERMINAL CAN BE FULLY UNSERTED TO PREVENT BLADE EXPOSURE.

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SERVICING PRECAUTIONS

CAUTION: Before servicing instruments covered by this service data and its supplements and addenda, read and follow the "Important Safety Instructions" on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Guidelines

1. Always unplug the instrument AC power cord from the AC power source before:
   a. Removing or reinstalling any component, circuit board, module, or any other instrument assembly.

   b. Disconnecting or reconnecting any instrument electrical plug or other electrical connection.

   c. Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.

   CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Do not spray chemicals on or near this instrument or any of its assemblies.

3. Unless specified otherwise in these service data, clean electrical contacts by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator: 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength).
   CAUTION: This is a flammable mixture. Unless specified otherwise in these service data, lubrication of contacts is not required.

4. Do not defeat any plug/socket of voltage interlocks with which instruments covered by this service data might be equipped.

5. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat-sinks are correctly installed.

6. Always connect the test instrument ground lead to the appropriate instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.

7. Use with this instrument only the test fixtures specified in this service data.
   CAUTION: Do not connect the test fixture ground strap to any heatsink in this instrument.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.

3. Use only a grounded-tip soldering iron to solder or desolder ES devices.

4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES device.

5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.

6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)

7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

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General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range 500°F to 600°F.

2. Use an appropriate lead free solder (see page 8). Lead solder can be used, but there is a possibility of failure due to insufficient strength of the solder.

3. Keep the soldering iron tip clean and well-tinned.

4. Thoroughly clean the surfaces to be soldered. Use a small wire-bristle (0.5 inch or 1.25 cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.

5. Use the following desoldering technique.
   a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).

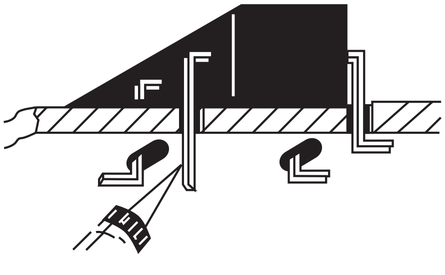
   b. Heat the component lead until the solder melts. Quickly draw away the melted solder with an anti-static, suction-type solder removal device or with solder braid.
   CAUTION: Work quickly to avoid overheating the circuit board printed foil.

6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).

   b. First, hold the soldering iron tip and solder strand against the component lead until the solder melts.

   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
   CAUTION: Work quickly to avoid overheating the circuit board printed foil or components.

   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.



Use Soldering Iron to Pry Leads

IC Removal/Replacement

Some Hitachi unitized chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.

2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.

2. Carefully bend each IC lead against the circuit foil pad and solder it.

3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to areas.)

“Small-signal” Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.

2. Bend into a “U” shape the end of each of the three leads remaining on the circuit board.

3. Bend into a “U” shape the replacement transistor leads.

4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the “U” with long nose pliers to insure metal to metal contact, then solder each connection.

Power Output Transistor Devices Removal/Replacements

1. Heat and remove all solder from around the transistor leads.

2. Remove the heatsink mounting screw (if so equipped).

3. Carefully remove the transistor from the circuit board.

4. Insert new transistor in circuit board.

5. Solder each transistor lead, and clip off excess lead.

6. Replace heatsink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.

2. Bend the two remaining leads perpendicularly to the circuit board.

3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.

4. Securely crimp each connection and solder it.

5. Inspect (on the circuit board copper side) the solder joints of the two “original leads”. If they are not shiny, reheat them and, if necessary, apply additional solder.

Fuses and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of circuit board hollow stake.

2. Securely crimp leads of replacement component around stake 1/8 inch from top.

3. Solder the connections.
   CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board, to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board, causing the foil to separate from, or "lift-off," the board. The following guidelines and procedures should be followed whenever this condition is encountered.

In Critical Copper Pattern Areas

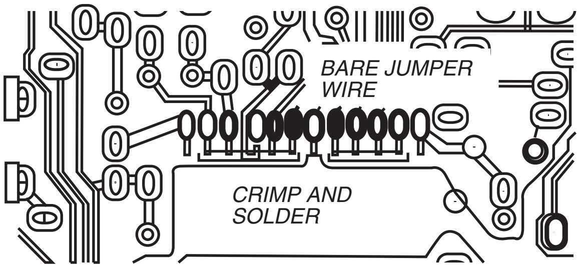
High component/copper pattern density and/or special voltage/current characteristics make the spacing and integrity of copper pattern in some circuit board areas more critical than in others. The circuit foil in these areas is designated as Critical Copper Pattern. Because Critical Copper Pattern requires special soldering techniques to ensure the maintenance of reliability and safety standards, contact your Hitachi personnel.

At IC Connections

To repair defective copper pattern at IC connections, use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections.)

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary.)

2. Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.



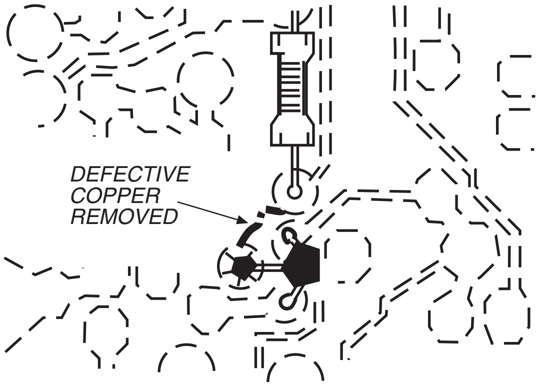
Install Jumper Wire and Solder

3. Bend a small "U" in one end of a small-gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.

4. Route the jumper wire along the path of the cut-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area, and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.



Insulated Jumper Wire

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure hazardous condition will not exist if the jumper wire opens.

2. Trace along the copper pattern from both wire sides of the pattern break and locate the nearest component directly connected to the affected copper pattern.

3. Connect insulated 20-gauge jumper wire from the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.
   CAUTION: Be sure the insulated jumper wire is dressed so that it does not touch components or sharp edges.

NOTE: ***These components are affixed with glue. Be careful not to break or damage any foil under the component or at the pins of the ICs when removing. Usually applying heat to the component for a short time while twisting with tweezers will break the component loose.***

Leadless Chip Components (surface mount)

Chip components must be replaced with identical chips due to critical foil track spacing. There are no holes in the board to mount standard transistors or diodes. Some chip capacitor or resistor board solder pads may have holes through the board, however the hole diameter limits standard resistor replacement to 1/8 watt. Standard capacitors may also be limited for the same reason. It is recommended that identical chip components be used. .

Chip resistors have a three digit numerical resistance code -1st and 2nd significant digits and a multiplier. Example: 162 = 1600 or 1.6KΩ resistor, 0 = 0Ω (jumper).

Chip capacitors generally do not have the value indicated on the capacitor. The color of the component indicates the general range of the capacitance.

Chip transistors are identified by a two letter code. The first letter indicates the type and the second letter, the grade of transistor.

Chip diodes have a two letter identification code as per the code chart and are a dual diode pack with either

common anode or common cathode. Check the parts list for correct diode number.

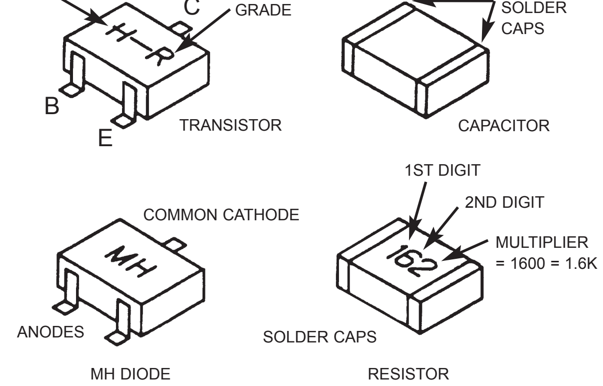
Component Removal

1. Use solder wick to remove solder from component end caps or terminals.
2. Without pulling up, carefully twist the component with tweezers to break the adhesive.
3. Do not reuse removed leadless or chip components since they are subject to stress fracture during removal .

Chip Component Installation

1. Put a small amount of solder on the board soldering pads.
2. Hold the chip component against the soldering pads with tweezers or with a miniature alligator clip and apply heat to the pad area with a 30 watt iron until solder flows. Do not apply heat for more than 3 seconds

Chip Components

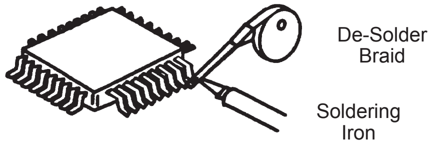

TYPE
C
GRADE
H—R
B
E
TRANSISTOR
SOLDER CAPS
CAPACITOR
COMMON CATHODE
MH
ANODES
MH DIODE
1ST DIGIT
2ND DIGIT
MULTIPLIER = 1600 = 1.6K
162
SOLDER CAPS
RESISTOR

How to Replace Flat-IC

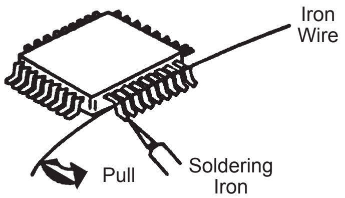
—Required Tools—

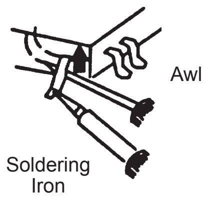
- Soldering iron
- De-solder braids
- iron wire or small awl
- Magnifier

1. Remove the solder from all of the pins of a Flat-IC by using a de-solder braid.

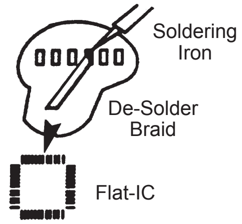

De-Solder Braid
Soldering Iron

2. Put the iron wire under the pins of the Flat-IC and pull it in the direction indicated while heating the pins using a soldering iron. A small awl can be used instead of the iron wire.

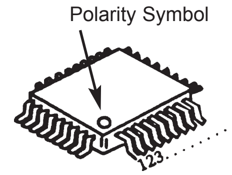

Iron Wire
Pull
Soldering Iron


Awl
Soldering Iron

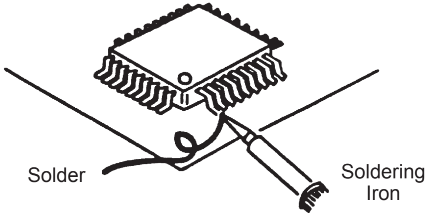
3. Remove the solder from all of the pads of the Fiat-IC by using a de-solder braid.


Soldering Iron
De-Solder Braid
Flat-IC

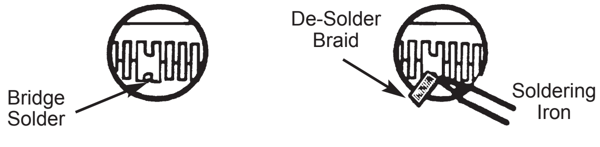
4. Position the new Flat-IC in place (apply the pins of the Flat-IC to the soldering pads where the pins need to be soldered). Properly determine the positions of the soldering pads and pins by correctly aligning the polarity symbol.


Polarity Symbol
123

5. Solder all pins to the soldering pads using a fine tipped soldering iron.


Solder
Soldering Iron

6. Check with a magnifier for solder bridge between the pins or for dry joint between pins and soldering pads. To remove a solder bridge, use a de-solder braid as shown in the figure below.


De-Solder Braid
Bridge Solder
Soldering Iron

Information for service about lead-free solder introduction

Hitachi introduced lead-free solder to conserve the "Earth Environment".
Please refer to the following before servicing.

(1) Characteristic of lead-free solder

Melting point of lead free solder is 40-50°C higher than solder containing lead.

(2) Solder for service

Following composition is reccomended.

" Sn - 3.0Ag - 0.5Cu " , or " Sn - 0.7 Cu "

Lead solder can be used, but there is a possibility of failure due to insufficient strength of the solder.

Caution when using solder containing lead.

Please remove previous solder as much as possible from the soldering point.
When soldering, please perfectly melt the lead-free solder to mix well with the previous solder.

(3) Soldering iron for lead-free solder.

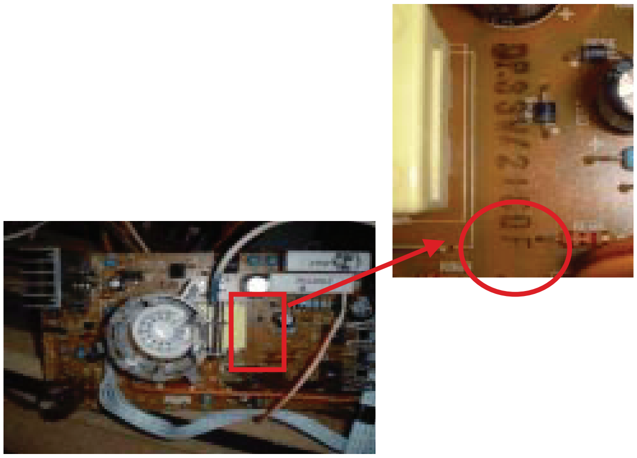
Melting point of lead-free solder is higher than solder containing lead.
Use of a soldering tool "with temperature control" and "with much thermal capacitance" is reccomended.
(Reccomended temperature control : 320°C - 450°C)

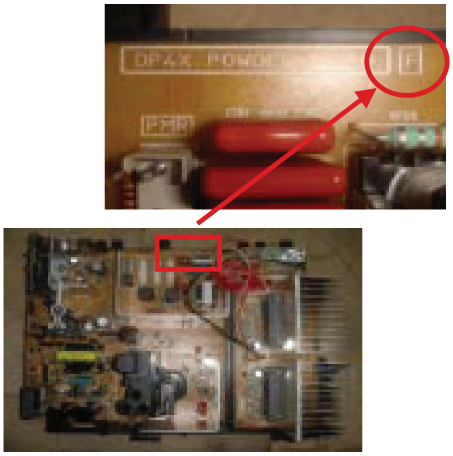
Reccomended temperature

PWB with chip parts	320°C +/- 30°C
PWB without chip parts	380°C +/- 30°C
Chassis, metal, shield etc.	420°C +/- 30°C

(4) Identification of lead-free PWB

On lead-free PWB, "F" is added at the end of stamp on PWB. (e.g. DP33W**F**)





AGENCY REGULATORY INFORMATION

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hitachi Home Electronics (America), Inc. may void the user's warranty.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Any cables that are supplied with the system must be replaced with identical cables in order to assure compliance with FCC rules. Order Hitachi spares as replacement cables.

Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

For questions regarding this declaration, contact:

Hitachi America, LTD.
Home Electronics Division
900 Hitachi Way
Chula Vista, CA 91914
Tel. 1-800-448-2244 (1-800-HITACHI)
ATTN: CUSTOMER RELATIONS

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ACKNOWLEDGMENTS AND TRADEMARKS

This Plasma Television complies with VESA DDC2B specifications, Plug & Play is a system with computer, peripherals (including monitors) and operating system. It works when the monitor is connected to a DDC ready computer that is running an operating system software that is capable for the plug & play.

When a Plug and Play PC is powered on, it sends a command to the Monitor requesting identification. The Monitor sends back a string of data including its characteristics.

TRADEMARK ACKNOWLEDGMENT

DDC™ is a trademark of Video Electronics Standard Association.
IBM PC/AT and VGA are registered trademarkds of International Business Machines Corporation of the U.S.A.
Apple and Macintosh are registered trademarks of Apple Computer, Inc.
VESA is a trademark of a nonprofit organization, Video Electronics Standard Association.

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Cable Compatible Television Apparatus- Tèlèvision câblocompatible, Canada.

Notes on Closed Caption:
This Plasma Television receiver will display television closed captioning, (CC or 🗨), in accordance with paragraph 15.119 of the FCC rules.

TruBass and the SRS(●)® symbol are trademarks of SRS Labs, Inc. TruBass technology is incorporated under license from SRS Labs, Inc.

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INTRODUCTION

The 42HDT51M and 55HDT51M are Plasma Television sets; They are constituted by the combination of two main parts, an AUDIO VIDEO CONTROL Center, and the Plasma Display monitor.
Each part has a model name and a chassis name:

Part	Model Name	Chassis Name
Audio Video Control Center	AVC75	AVC5-U
42" Plasma Display Monitor	42HDT51M	PT5-G
55" Plasma Display Monitor	55HDT51M	PW1-H

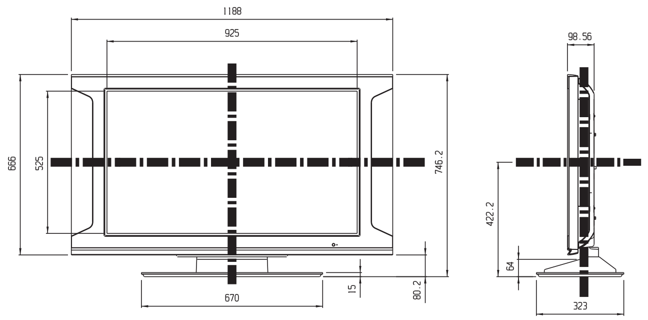
The AVC center is a box that controls most of the user functions of the complete TV set and conditions the signal before it arrives to the monitors.

The 42" and 55" monitors contain the displaying device, which is the plasma display panel module, and the driving circuitry, which receives the signal from the AVC center and after processing, delivers the image to the display module.

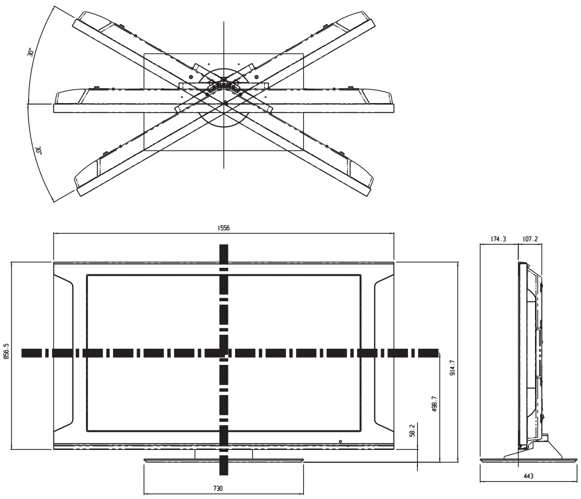
This HITACHI Service Manual is intended for the qualified service personnel and it contains the necessary information for troubleshooting the Plasma television set in case of malfunction.

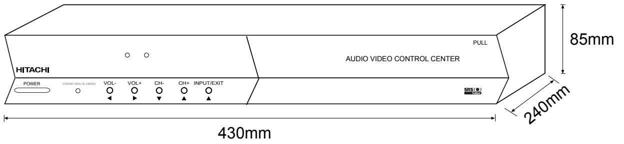
DIMENSIONS:

42HDT51M


1188
925
98.56
666
525
746.2
422.2
64
670
15
80.2
323

55HDT51M


30°
30°
1556
174.3
107.2
856.5
914.7
498.7
58.2
730
443


85mm
PULL
AUDIO VIDEO CONTROL CENTER
HITACHI
POWER
VOL-
VOL+
CH-
CH+
INPUT/EXIT
240mm
430mm

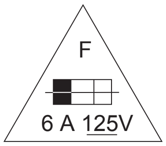
POWER RATINGS:

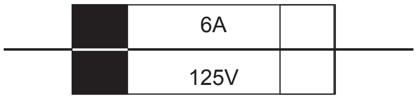
No.	Model Name	Indicated Value Max Rating (W)	Indicated Value Max Rating (A)	Indicated Value Average Rating (W)	PST(W) Without POD. less than 1W	PST(W) With POD. less than 14W	Chassis
1	all AVC except below	48W	0.9A	(41W)	0.5W	14W	AVC5-U

CIRCUIT PROTECTION

CAUTION: Below is an EXAMPLE only. See Replacement Parts List for details. The following symbol near the fuse indicates fast operation fuse (to be replaced). Fuse ratings appear within the symbol.

Example:





"RISK OF FIRE - REPLACE FUSE AS MARKED"

The rating of fuse F901 is 6A - 125V.
Replace with the same type fuse for continued protection against fire.

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Specification Features

A- Plasma

Model				AVC75	
Dimension	Size		1	430mm×85mm×240mm	
	Weight		2	4.2ｋｇ	
A/C Input Voltage	Input AC Voltage		3	AC108Ｖ～132Ｖ (with 3 Plug AC Power Cord inlet type ,1.8ｍ length)	
	Input AC Frequency		4	60Hz	
	Power Consumption		5	48W, SBY/POD-SBY less than 1W/14W	
Front End	Front End(Main/Sub/ATSC)		6	VO-A32FT/VO-A69FT/V2-A35DG (NTSC/NTSC/ATSC(8VSB),64QAM,256QAM)	
	Available Channel		7	2～13	VHF
			8	14 ～ 69	UHF
			9	A-5～A-1、A～W、W+1～W+94	CATV
Input Signal	Video Signal		10	ＮＴＳＣ	
	Component Signal		11	480ｉ/p. 1080ｉ, 720p	
	PC Signal		12	ＶＧＡ ～ ＵＸＧＡ (fH:24KHz-109KHz,fV:50Hz-85Hz)	
	HDMI Signal		13	480i,480p,720p,1080i(EIA-861B)	
Picture	Ｙ/Ｃ Separation		14	３Ｄ Ｙ/Ｃ (ON fix)	
	Line Correction		15	No	
	I-P Conversion		16	Motion Adaptive & Multi Angle Interpolation	FC4
	Picture Mode		17	Day,Night	
	Display Mode		18	42:1024i,55:768p	Video Signal
			19	42:1024i,55:768p	ComponentSignal
			20	42:1024i,55:768p	PinP Mode
			21	42:1024i,55:768p	PC Signal
Sound Enhancement			22	TruBass or Dynamic Bass (High,Medium,Low Off) Matrix Surround (On/Off)	TruBass is AVC75 only. Dynamic Bass is AVC76L only.
Adjustment	Settings for Video Signal		23	Picture,Contrast,Brightness,Color,Tint ,Sharpness,W/B Temp,Black Enhancement ,Contrast Mode,Color Management/Decoding ,Auto Color,Noise Reduction,Auto Movie Mode, ,Black Side Panel	
	Settings for ＰＣ Signal		24	Contrast,Brightness,W/B Temp, Enhancer,Input Level,Blacl Side Panel.	
	Settings for ＰＣ Raster		25	Hor/Vert Raster Position,Horizontal Clock ,Clock Phase.	
	Settings for Sound		26	Vol,Balance,Bass,Treble,Source,Internal Speakers ,Auto Noise Cancel,Perfect Volume,Mute,Soft Mute	
General Function	PinP Mode	Split	27	With(All video signal combinations, except PC signal)	Except Photo Input
		Strobe	28	With(4Pix:only ANT A/B,Video,480i)	Except Photo Input
		Surf	29	With(SURF12:only ANT A/B)	Except Photo Input
		POP	30	With(Main: ANT A/B,Video,480i Sub: ANT A/B,Video,480i,1080i)	Except Photo Input
		PIP	31	With(Main:1080i Sub: ANT A/B,Video,480i,1080i)	Except Photo Input
		PC-Window	32	With(Main:RGB Sub:All video signal,except PC/DM)	Except Photo Input
	Wide Mode		33	6Mode	
	Aspect Selection	Video	34	4:3 Standard/16:9 Standard/ 4:3 Expanded/Zoom 1/Zoom 2/16:9 Zoom	
		ＰＣ	35	Full/Normal/Real (Real 42:VGA,55:VGA/SVGA/XGA/WXGA)	
	Film Theater		36	With(Auto Movie Mode:On/Off)	
	Color Temperature		37	4Mode（High/Medium/Standard/Black & White)	
	Input Signal Selection		38	RGB,VIDEO1/2/3/4/5、ANT A/B,IEEE1394,Photo Input	

Model			AVC75	
General Function	Gamma Correction	39	Only for Service Menu	
	Picture Enhancer	40	With (only RGB)	
	Input Signal Identification	41	Yes	
	Audio Special Mode	42	No	
	Power Save Mode	43	With (RGB In)	LED Normal:Green Power Save:Orange Stand by:Red
		44	With (On/Off) (Video In)	
	Burning Protection	45	With (Raster Shift:3 option,All White Pattern)	
	OSD Language (VIDEO/PC)	46	ENGLISH,FRANCAIS,ESPANOL	
	Power Swivel	47	With	
R/C Handset		48	CLU-3841WL / CLU-122S	PANASONIC/UEI
In/Out Terminal	PC Input （RGB）	49	1 Input:Mini Dsub-15PX1	
	Composite Video Input (VIDEO1～5)	50	5 Input:RCA pin×5 (1 Input Front Panel)	
	S-In(S2 Terminal) (Video/S arecommon selector, priority is S-In).	51	3 Input:Mini Din-4P×3 (1 S-In on Front Panel)	
	Component Signal Input (VIDEO1,VIDEO2)	52	2 Input:RCA pin×6(Y of VIDEO1/2 is common input for Composite-In)	
	Digital Input(HDMI+HDCP)	53	2 Input:HDMI(18P)X1 (Selected by component Video1/2,Digital input priority)	
	Audio In （L/R） （Lch:mono）	54	6 Input;ＲＣＡpin×12 (RGB:1 Input,Video:5 Input)	
	CATV In	55	1 Input (VIDEO2 LINK)	Auto Link Function
	Video Control Terminal (BS)	56	No	
	U/V Ant Input	57	ANT-A IN,ANT-B IN	
	BS-I／F Input	58	No	
	Video Monitor Out Terminal	59	1 Output:RCA pin×1	
	Audio Output Terminal	60	1 Output L/R:RCA pin×2(Common input for No.59)	
	Audio Monitor Out Terminal	61	1 Output L/R:RCA pin×2	
	IR-OUTPUT	62	2 Terminal	
	Headphone Terminal	63	1 Terminal （only for AVC）	
	PDP Interface Terminal	64	DVI-D(26p)+Mini 8PIN-DIN	
	IEEE 1394 Input	65	2 (4pin connector)	
	RS-232C Terminal	66	1 (Female type)	
	Photo Input	67	1 (On front panel)	
	Audio Optical Output	68	1 (Square type)	
Front Key	Main Power Switch	69	No	
	Power On/off Switch	70	With （link to Monitor）	
	IR Receiving Unit	71	With （link to Monitor）	
	Power Indicator LED	72	With	
	Menu Control Key	73	With （Channel U/D, Vol U/D, A/V Input Select,Menu Select）	
Option	10m DVI-I/F cable(AVC-PDP)	74	With	
	PDP TV Stand	75	With	
	Wall Mount Unit	76	With	

B- Environment

NO	Item	Specification
1	Operating Temp.	+5℃～+35℃
2	Stock Temp.	-15℃～+60℃
3	Operating Humidity	20%～80%ＲＨ
4	Stock Humidity	20%～90%ＲＨ
5	Operating Atmosphere Pressure	800～1114ｈＰａ (1888ｍ～-757ｍ)
6	Stock Atmosphere Pressure	300～1114ｈＰａ (4727ｍ～-757ｍ)
7	Warranty Gravity Vertical	0.85Ｇ
8	Warranty Drop High	30ｃｍ
9	Tilt Angle	12° Over

3. General Specification

3.1 Model Spec

Item	Model Name	42HDT51M
Destination		U.S.A. / CANADA
Exterior	Cabinet Dimensions (Main Body) (Speaker & stand inclusive)	1188×666×98.7 mm 1188×746.5×323 mm
	AL Frame Color Screen Frame Color	Anodized Silver Brightness Silver
	Stand	Inclusive(With Power Swivel)
	Weight (Main Body) (Speaker & stand inclusive) (Main Body:Packed)	47.0 kg typ. 61.0 kg typ.(Packed)
	Screen Size	922×522mm(42Inch 16:9)
Display Panel	Resolution	1024×1024 pixels
	Dot Pitch (H)	0.90mm
	Dot Pitch (V)	0.51mm
	Viewing Angle (H)	±85°
	Viewing Angle (V)	±85°
Front Filter	Surface Finishing	AR Coating,Mesh
Brightness	Peak Brightness (1% window)	280 cd/m^2 or more (When VIDEO, Sports,Color temperature 'HIGH' Input Signal Amplitude 100 % is set) 280 cd/m^2 or more (When RGB is set)
	All White Pattern	50cd/m^2 or more
Contrast	Contrast ratio	1000 : 1 (typ)
Color Reproduction	Color Reproduction	16.7 million colors or more
Audio Output	Audio Output	12W+12W(6ohm,10%Distortion)
Panel Operation	Main Power Switch	PUSH (LOCK) 1 switch
	Sub Power Switch	PUSH (NON-LOCK) 1switch
Input Terminal	Video/Audio Input	24pin DVI connector 1 system 8pin Mini DIN connector 1
Output Terminal	Audio Line Output	Sub Woofer Output 1 system
	Speaker Output	One system each for L and R
Power Supply Source	Connector	3 Polarity Receptacle
	Input Voltage	Single Phase AC108-132V, 60Hz
Guaranteed Environment Condition	Temp. (Operating)	5~35°C(41F~95F)
	Temperature (Stored)	-15~60°C(5F~140F)
	Humidity (Operating)	20~80%RH (Non-condensing)
	Humidity (Stored)	20~90%RH (Non-condensing)
	Atmospheric Pressure (Operating)	800 to 1114hPa (altitude:1888m to –757m, 6194feet to –2483feet)
	Atmospheric Pressure (Storage)	300 to 1114hPa (altitude:9727m to –757m, 31912feet to –2483feet)

Item	Model Name	55HDT51M
Destination		U.S.A. / CANADA
Exterior	Cabinet Dimensions (Main Body) (Speaker inclusive)	1556×856.5×107.5 mm
	AL Frame Color Screen Frame Color	Anodized Silver Brightness Silver
	Stand	Inclusive(With Power Swivel)
	Weight (Speaker inclusive) (Main Body:Packed)	77.0 kg typ. 87.0 kg typ.(Packed)
	Screen Size	1098.2×620.5mm (50Inch 16:9)
Display Panel	Resolution	1366×768 pixels
	Dot Pitch (H)	0.858mm
	Dot Pitch (V)	0.808mm
	Viewing Angle (H)	More than 80° (Brightness:1/10)
	Viewing Angle (V)	More than 80° (Brightness:1/10)
Front Filter	Surface Finishing	Low Refrection Coating
Brightness	Peak Brightness (1% window) (H/V:10%)	260 cd/m^2 or more (When VIDEO, Sports,Color temperature 'HIGH' Input Signal Amplitude 100% is set) 180 cd/m^2 or more (When RGB is set)
	All White Pattern	40 cd/m^2 or more
Contrast	Contrast ratio	680 : 1 (typ)
Color Reproduction	Color Reproduction	16.7 million colors or more
Audio Output	Audio Output	12W+12W(6ohm、10%Distortion)
Panel Operation	Main Power Switch	PUSH (LOCK) 1 switch
Input Terminal	Video/Audio Input	24pin DVI connector 1 system 8pin Mini DIN connector 1
Output Terminal	Audio Line Output	Sub Woofer Output 1 system
	Speaker Output	None
Power Supply Source	Connector	3 Polarity Receptacle
	Input Voltage	Single Phase AC108-132V, 60Hz
Guaranteed Environment Condition	Temp. (Operating)	5~35℃(41F~95F)
	Temperature (Stored)	-15~60℃(5F~140F)
	Humidity (Operating)	20~80%RH (Non-condensing)
	Humidity (Stored)	20~90%RH (Non-condensing)
	Atmospheric Pressure (Operating)	800 to 1114hPa (altitude:1888m to –757m, 6194feet to –2483feet)
	Atmospheric Pressure (Storage)	300 to 1114hPa (altitude:9727m to –757m, 31912feet to –2483feet)

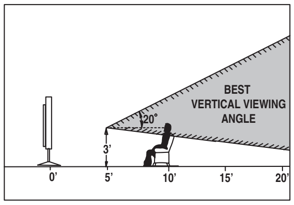
BASIC SETUP & OPERATION

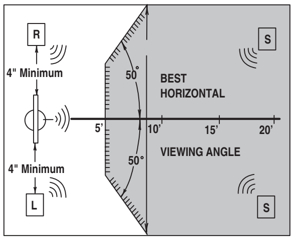
VIEWING

The major benefit of the HITACHI Plasma Television is its large viewing screen. To see this large screen at its best, test various locations in the room to find the optimum spot for viewing. The best picture is seen by sitting directly in front of the TV and about 8 to 18 feet from the screen.

During daylight hours, reflections from outside light may appear on the screen. If so, drapes or screens can be used to reduce the reflection or the TV can be located in a different section of the room.

If the TV's audio output will be connected to a Hi-Fi system's external speakers, the best audio performance will be obtained by placing the speakers equidistant from each side of the receiver cabinet and as close as possible to the height of the picture screen center. For best stereo separation, place the external speakers at least four feet from the side of the TV, place the surround speakers to the side or behind the viewing area. Differences in room sizes and acoustical environments will require some experimentation with speaker placement for best performance.





IMPORTANT NOTES

No.	Items	Notes
1	Arching sound from plasma display monitor's panel.	A buzzing sound might be heard when the plasma display monitor is turned on in a very quiet room. This is due to the plasma panel drive circuit when it is functioning. This arching sound is normal and it is not a malfunction.
2	Interference for infrared equipment.	Some infrared rays are emitted from the plasma display monitor's panel that might affect other infrared controlling equipment.
3	Bright and dark spots	High-precision technology is used to manufacture the plasma display panel; But in some cases, there are minor defects in some parts of the screen. Points that do not light, points with brightness different from that of the periphery, points with color different from that of the periphery, etc. Some pixels will always be on or always off. Please note that this is not a malfunction.
4	Picture Image (Spectrum)	When receving still picture signals, (e.g. channel number indication or clock indication) for a while, you can see image-like when the picture varied. This is not a defect.
5	Display panel surface temperature is too high	The plasma display panel is lighting the phosphors by the discharge of internal radiation. In some cases, this may cause the temperature of the panel surface to increase. Please note that this is not a malfunction. The Plasma TV surface temperature is higher than a Cathode-ray-tube.
6	Plasma Surface	The plasma panel is made from glass. Heavy shock on the front panel might damage it.
7	Transportation	When the PDP monitor is transported horizontally, the glass panel has the possibility of being broken or increasing the picture defects. At the time of transportation, horizontal style is prohibited. More-over, please treat the plasma panel with great care because of a precision apparatus. Please instruct transporters so that it should be put into the packing box at the time of shipment.(There is a possibility that breakage of the panel or defects will increase.) Rough transportation might cause damage to the panel and pixel failure.
8	Image retention	The plasma monitor illuminates phosphor to display images. The phosphor has a finite illumination life. After extended periods of illumination, the brightness of the phosphor will be degraded to such extent that stationary images would burn-in that part of the screen as grayed-out images. Tips to prevent such image retention are: - Do not display images having sharp brightness differences or hi-contrast images, such as monochrome characters and graphic patterns, for long. - Do not leave stationary images appearing for long, but try to refresh them at appropriate intervals of time, or try to move them using screen saver function. - Turn down the contrast and brightness controls.
9	Luminosity and contrast	PDP television has luminosity and low contrast compared with CRT television.
10	Granular spots	When a screen is seen at point-blank range, a random fine grain may be visible to a dark part.
11	Disturbance to video apparatus	If an apparatus (VCR, etc.) antenna line is arranged near the monitor, the image may shake, or disturbance may be received.
12	Lip Sync	There is some time lag betweeen the picture and the sound. You can see lip motion that is delayed compared to the sound.
13	About the use environment of PDP television (temperature)	Electric discharge/luminescence characteristic of the PDP panel also changes with peripheral temperature. Moreover, since there is also high power consumption value, a specified temperature environment is required.
14	Caution on prolonged storage	Storing the plasma television for a period of more than 2 to 3 months without use might cause an unstable picture when the set is turned on.
15	Operating	Operating altitude: 800 to 1114hPa (6194ft to -2484ft). Operating temperature: 41˚F to 95˚F.
16	Storage	Storage Altitude: 300 to 1114hPa (31,912 to -2484ft). Storage temperature: 5˚F to 140˚F.
17	Power ON or OFF	Frequent use of the Power ON or OFF might trigger the power protection circuit. If the TV does not turn ON, please wait a little before turning ON again.

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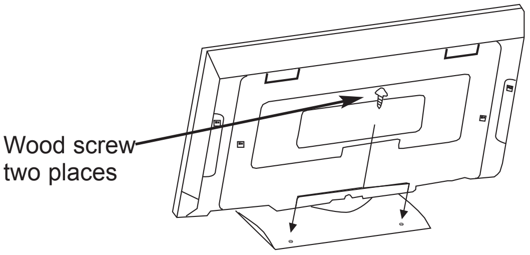
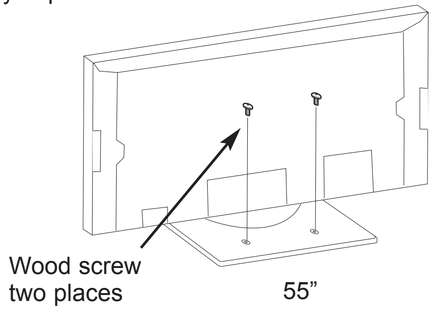
To take measures to prevent the Plasma Display from tipping over and prevent possible injury it is important to mount the unit in a stable place.

Securing to a table-top

1. Using wood screws (two) fasten the set to the clamping screw holes on the rear of the Plasma Display stand as shown below.
2. Using commercially available wood screws, secure the set firmly in position.



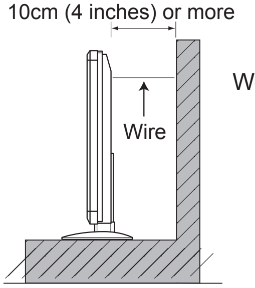
42”

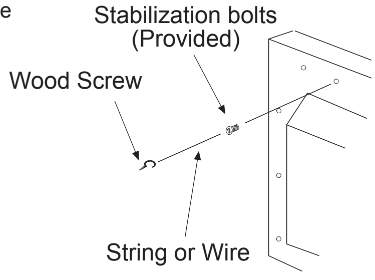


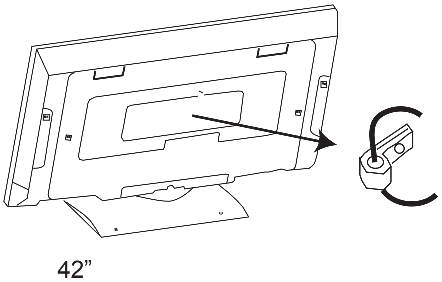
55”

Securing to a wall

1. Keep the Plasma Display monitor four inches away from the wall except those hung to the wall mount bracket.
2. Secure the monitor to the wall as shown below.







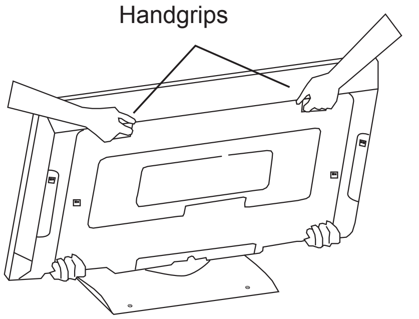
42”

NOTES:

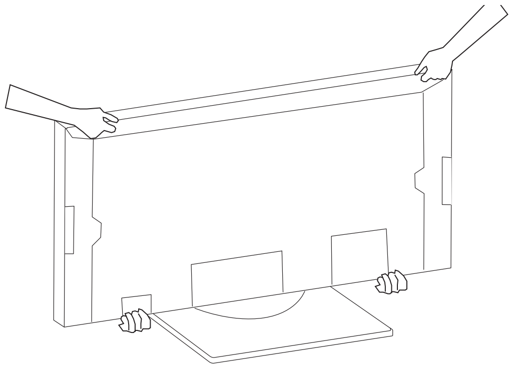
1. Do not block the ventilation holes of the Plasma Display monitor or the AVC center. Blocking the ventilation holes might cause fire or defect.
2. The plasma television has two AC cords, one on the AVC center and the other on the Plasma Display monitor. In case of an abnormal symptom, unplug both AC cords.
3. If you purchased the wall mount bracket option, please ask for professional installer. Do not install by yourself.

Caution when moving the main unit

As this product is heavy, whenever it is moved, two people are required to transport it safely. Whenever the unit is moved it should be lifted forward using the two handgrips at the back for the 42”, and at the top and base on both sides of the 55” for stability. When moving the Display Monitor, lift the handles and the bottom frame as shown below. Do not grab the speakers or the back cover when lifting.



42”



55”

ANTENNA

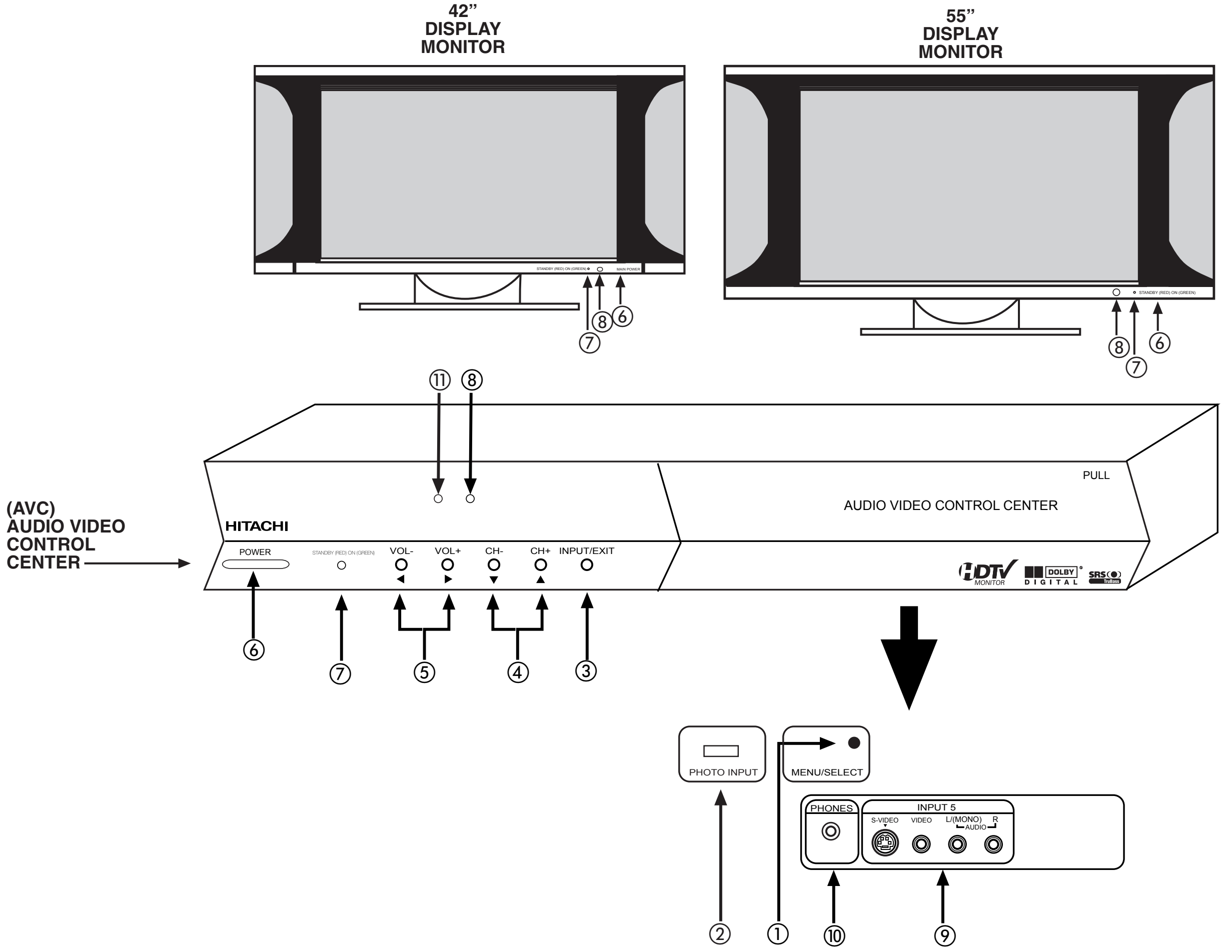
Unless your Plasma Television is connected to a cable TV system or to a centralized antenna system, a good outdoor color TV antenna is recommended for best performance. However, if you are located in an exceptionally good signal area that is free from interference and multiple image ghosts, an indoor antenna may be sufficient.

LOCATION

Select an area where sunlight or bright indoor illumination will not fall directly on the picture screen. Also, be sure that the location selected allows a free flow of air to and from the perforated back cover of the set.
To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot, for example, in direct sunlight or near a heating appliance, etc.

FRONT PANEL CONTROLS

FRONT VIEW


42" DISPLAY MONITOR
55" DISPLAY MONITOR
STANDBY (RED) ON (GREEN)
MAIN POWER
⑥
⑦
⑧
⑪
(AVC) AUDIO VIDEO CONTROL CENTER
HITACHI
POWER
STANDBY (RED) ON (GREEN)
VOL-
VOL+
CH-
CH+
INPUT/EXIT
◀
▶
▼
▲
PULL
AUDIO VIDEO CONTROL CENTER
HDTV MONITOR
DOLBY DIGITAL
SRS
⑤
④
③
PHOTO INPUT
MENU/SELECT
PHONES
INPUT 5
S-VIDEO
VIDEO
L/(MONO)
R
AUDIO
②
①
⑩
⑨

① **MENU/SELECT button**

This button allows you to enter the MENU, making it possible to set TV features to your preference without using the remote. This button also serves as the SELECT button when in MENU mode.

② **PHOTO INPUT**

Insert USB cable from your Digital Camera to view your digital still pictures.

③ **INPUT/EXIT button**

Press this button to select the desired input, VIDEO 1 to 5, RGB, IEEE 1394, Photo Input or Ant A/B source. Your selection is shown in the top right corner of the screen. This button also serves as the EXIT button when in MENU mode.

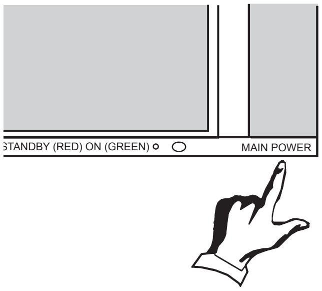
④ **CHANNEL selector**

Press these buttons until the desired channel appears in the top right corner of the TV screen. These buttons also serve as the cursor down (▼) and up (▲) buttons when in MENU mode.

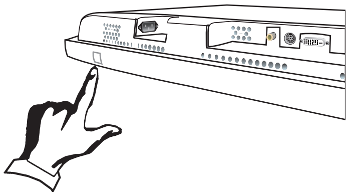
⑤ **VOLUME level**

Press these buttons to adjust the sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left (◀) and right (▶) buttons when in MENU mode.

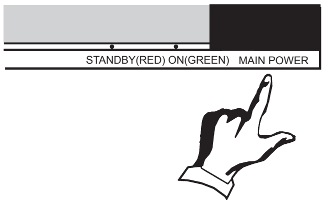
⑥ **POWER button**
Display Monitor “MAIN POWER” button
This power button is for the complete system, and must be turned ON/OFF manually. It is recommended to leave the “MAIN POWER” to ON condition (lights red) for stand-by mode.



or



42”



55”

AVC POWER button
The AVC power can be turned ON/OFF manually or by remote control. Turning on the AVC Power will only turn on the AVC box if the “MAIN POWER” of the display monitor is off.

⑦ **POWER light indicator**
To turn the monitor ON, press the main power switch located on the lower right side of the monitor. A red stand-by indicator lamp located on the lower right corner of the front bezel will illuminate. The PDP is now ready for remote on/off operation.

Indicating Lamp	Power Status	Operating
Off	Off	When the main power switch is set OFF.
Lights Red	Off (Stand-by)	When the main power switch on the display monitor is ON, and the AVC Center is OFF.
Lights Green	On	Display monitor MAIN POWER is ON and AVC Center power is ON.
Lights Orange (Flashing)	Off (Power Saving)	Display monitor MAIN POWER is ON and and AVC Center power is ON, with no signal input except antenna (no sync. signal).

⑧ **REMOTE CONTROL sensor**
Point your remote at this area when selecting channels, adjusting volume, etc.

⑨ **FRONT INPUT JACKS (for VIDEO: 5)**
Use these audio/video jacks for a quick hook-up from a camcorder or VCR to instantly view your favorite show or new recording. Press the INPUTS button then use the CURSOR PAD and the SELECT button on the remote control to select INPUT 5. VIDEO: 5 appears in the top right corner of the TV screen. If you have mono sound, insert the audio cable into the left audio jack.

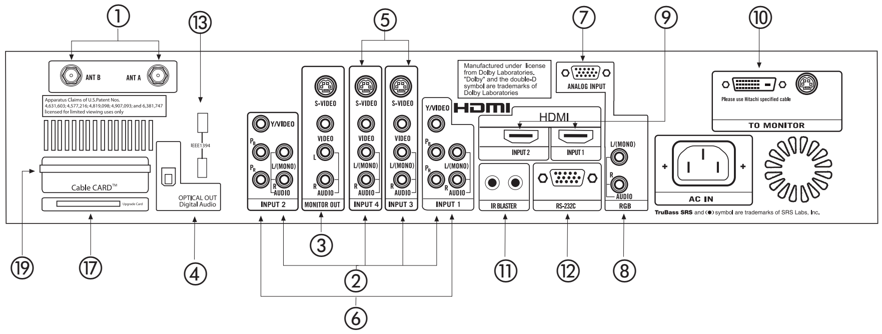
⑩ **PHONES JACK**
Use this jack for your head-phones. The TV’s internal speakers can also be heard. Turn off the internal speakers if you wish to listen to the head-phones only.

⑪ **LEARNING AV NET Sensor**
Point your equipment’s remote control at this area while using the AV NET Learning Wizard.

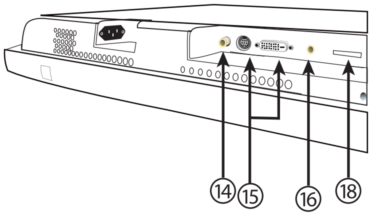
NOTES:
1. Your HITACHI Plasma TV will appear to be turned OFF (lights orange) if there is no video input when VIDEO: 1, 2, 3, 4, 5, or RGB is selected. Check the Power Light to make sure the Display Monitor is turned off or in Stand-by mode (lights red) when not in use.
2. Remote Control can not turn ON/OFF the “MAIN POWER” of the display monitor.

REAR PANEL JACKS

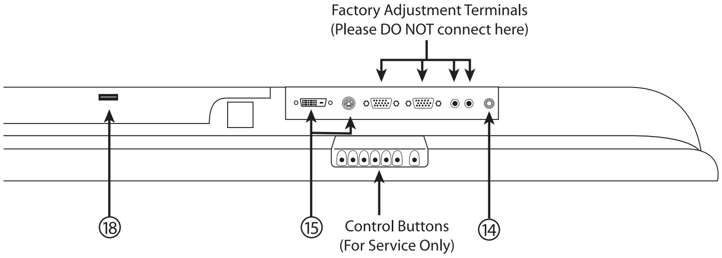
Audio Video Control Center (AVC)


①
⑬
⑤
⑦
⑨
⑩
ANT B
ANT A
Cable CARD™
IEEE 1394
OPTICAL OUT
Digital Audio
Y/VIDEO
S-VIDEO
VIDEO
L/(MONO)
AUDIO
INPUT 2
MONITOR OUT
INPUT 4
INPUT 3
INPUT 1
HDMI
ANALOG INPUT
IR BLASTER
RS-232C
RGB
TO MONITOR
AC IN
⑲
⑰
④
③
②
⑥
⑪
⑫
⑧

42” Monitor Bottom View



55” Monitor Bottom View


Factory Adjustment Terminals
(Please DO NOT connect here)
⑱
⑮
Control Buttons
(For Service Only)
⑭

① **Antenna Input**
The remote control allows you to switch between two separate 75-Ohm RF antenna inputs, ANT A and ANT B. ANT A input can be displayed as a main picture or sub-picture. ANT B can only be displayed as a main picture (ANT B cannot be displayed as a sub-picture).

② **Audio/Video Inputs 1, 2, 3 and 4**
By using the INPUTS button, the CURSOR PAD, and the SELECT button of the remote control, you can select each video source. Use the audio and video inputs to connect external devices, such as VCRs, camcorders, laserdisc players, DVD players etc. (if you have mono sound, insert the audio cable into the left audio jack).

③ **MONITOR OUT**
These jacks provide fixed audio and video signals (ANT A/B, INPUT 1~5) which are used for recording. Use the S-VIDEO Output for high quality video output. Component signal to Input 1 and 2, RGB and HDMI inputs will not have monitor output.

④ **Optical Out (Digital Audio)**
This jack provides Digital Audio Output for your audio device that is Dolby® Digital and PCM compatible, such as an audio amplifier.

⑤ **S-VIDEO Inputs 3 and 4**
Inputs 3 and 4 provide S-VIDEO (Super Video) jacks for connecting equipment with S-VIDEO output capability.

NOTES:
1. You may use VIDEO or S-VIDEO inputs to connect to INPUT 3 and 4, but only one of these inputs may be used at a time.
2. S-VIDEO output may be used for recording, only when the input is of S-VIDEO type.

⑥ **Component: Y-P_BP_R Inputs**
Inputs 1 and 2 provide Y-P_BP_R jacks for connecting equipment with this capability, such as a DVD player or Set Top Box. You may use composite video signal for INPUTS 1 and 2.

NOTES:
1. DO NOT connect composite VIDEO and S-VIDEO to Input 3, 4 or 5 at the same time. S-Video has a higher priority over video input.
2. Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the AVC Box’s P_B input and the components R-Y output to the AVC Box’s P_R input.
3. Your component outputs may be labeled Y-C_BC_R. In this case, connect the component C_B output to the AVC Box’s P_B input and the component C_R output to the AVC Box’s P_R input.
4. It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-P_BP_R inputs.
5. To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-P_BP_R jacks, RGB and HDMI inputs.

⑦ **RGB - Analog Input**
Use this 15-pin D-Sub input for your external devices with RGB output.

⑧ **RGB - Audio Input**
Connect audio for RGB input (if you have mono sound, insert the audio cable into the left audio jack).

⑨ **HDMI - Digital Input (INPUT 1 and INPUT 2)**
About HDMI
HDMI is the next-generation all digital interface for consumer electronics. HDMI enables the secure distribution of uncompressed high-definition video and multi-channel audio in a single cable. Because digital television (DTV) signals remain in digital format, HDMI assures that pristine high-definition images retain the highest video quality from the source all the way to your television screen.

Use the HDMI input for your external devices such as Set-Top-Boxes or DVD players equipped with an HDMI output connection.

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

NOTES: 1. The HDMI input is not intended for use with personal computers.

2. Only DTV formats such as 1080i, 720p, 480i and 480p are available for HDMI input.

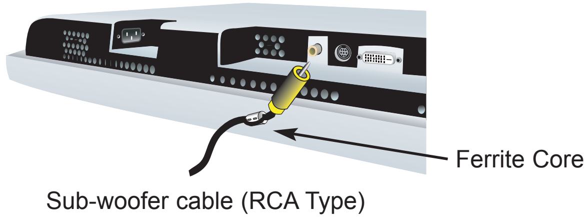
⑩ **To Monitor**
Connect the Monitor Connection Cable to the AVC center’s “TO MONITOR” connector, and to the display monitor’s “FROM AVC” connector.

⑪ **IR Blaster**
This jack provides IR output to your external components (VCR, Cable box, DVD player, etc.). With this connection, your external components can automatically be controlled by the A/V network feature. This connection will allow you to control the external components with your Plasma Television’s remote control in TV mode.

⑫ **RS232C Input**
For use with third party home Audio/Video control systems which are commercially available. Please see your dealer regarding these “non Hitachi” home control systems.

⑬ **IEEE1394**
These jacks provide a digital interface for your external digital devices, such as a Digital VCR (D-VHS or Set-Top-Box) by means of a single cable. When using IEEE1394 connections, you enable video and audio digital data exchange between a compatible device. This connection also enables you to control basic equipment functions (such as VCR play, rewind, fast forward, stop, etc.) from your TV On-Screen Display.

⑭ **Subwoofer Out**
Connect this SUB WOOFER OUT output to the external audio component input using the sub woofer cable provided.



⑮ **To AVC**
Connect the Monitor Connection cable from the AVC center’s “TO MONITOR” to these connectors (“FROM AVC”).
This is a Hitachi proprietary cable, do not use any other cable.

⑯ **SUB-POWER button**
This power is for serviceman usage.

⑰ **Upgrade Card**
This card slot is for future software upgrades. Hitachi will notify you if a software upgrade is required for your TV. In order to receive written notification, please complete and return your warranty card.

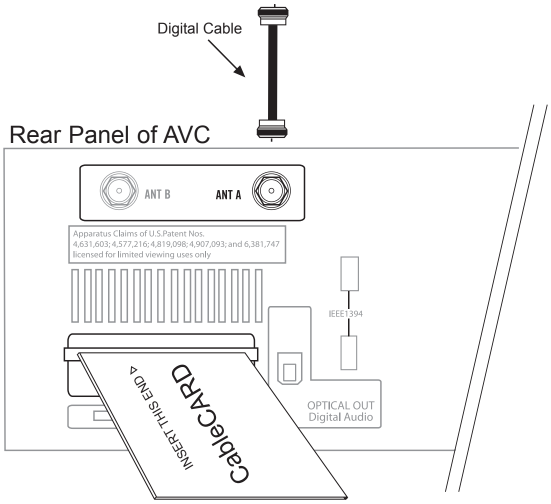
⑱ **To Power Swivel Connector**
Connects to the Power Swivel Table Top Stand.
For model 55HDT51, the stand (TTS55) is optional.

CONNECTING AV NETWORK

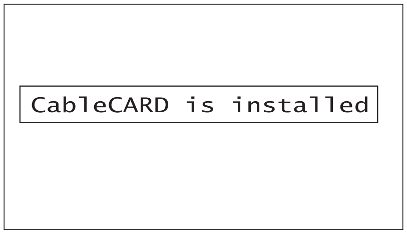
⑲ CableCARD Slot

This slot is for the CableCARD that will be provided by your local cable operator to gain access to chosen cable channels. The CableCARD will allow you to tune digital and high definition cable channels. Please call your local cable operator if this service is available before requesting a CableCARD (also known as Point of Deployment (POD) module).

Connect a coaxial cable to ANT A terminal of the Rear Panel Jacks.
Insert the CableCARD into the slot (Top of card should be facing up as shown).

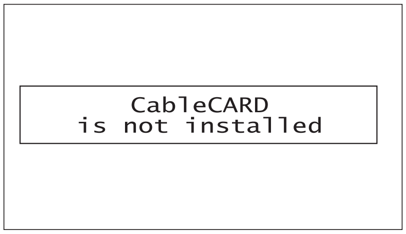

Digital Cable
Rear Panel of AVC
ANT B
ANT A
Apparatus Claims of U.S.Patent Nos. 4,631,603; 4,577,216; 4,819,098; 4,907,093; and 6,381,747 licensed for limited viewing uses only
IEEE1394
OPTICAL OUT
Digital Audio
INSERT THIS END
CableCARD

If the CableCARD is properly installed or not installed, the TV will display the following respective screens.



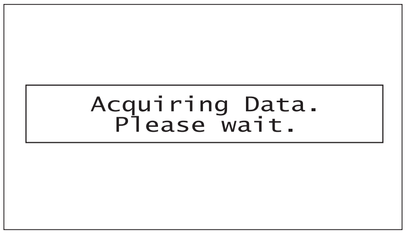
CableCARD is installed

OR

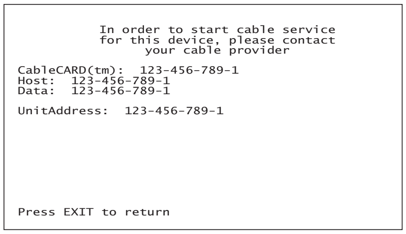


CableCARD
is not installed

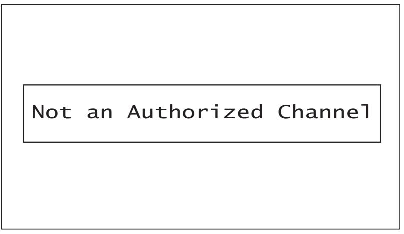
After the CableCARD is installed, wait until the second screen below appears. The third screen below will appear if a channel is not authorized for viewing. Press the EXIT button to exit the second screen.



Acquiring Data.
Please wait.



```
        In order to start cable service
        for this device, please contact
             your cable provider

CableCARD(tm):  123-456-789-1
Host:  123-456-789-1
Data:  123-456-789-1

UnitAddress:  123-456-789-1





Press EXIT to return
```



Not an Authorized Channel

Please take note of all information on the screen (you will provide this information to your cable operator). Call your cable operator and give them the information from the card to start your cable service.

NOTES:
1. A digital cable subscription is required.
2. Antenna B will not be available when CableCARD is inserted.
3. Do not insert a PCMCIA card into the CableCARD slot.

ADJUSTMENTS TABLE OF CONTENTS

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1 ADJUSTMENT PROCEDURE START-UP

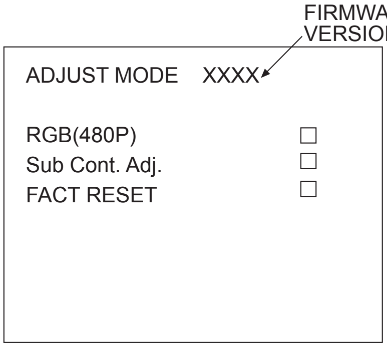
The 42HDT51M and 55HDT51M PDP TV sets undergo thorough adjustment procedures during their assembly process. These adjustments must be done to assure the best performance of the PDP set for the consumer.

Also, after servicing, these same adjustments must be done. The adjustments are all made through the I²C bus by changing data in the Adjustment mode menu.

Table 2 on pages 38-46 shows the complete parameter list with a brief description, signal format, the adjustment range and the initial data.

1.1 HOW TO GET TO ADJUSTMENT MODE

Chassis adjustment can be done by using the AVC75 front control panel buttons with PDP set turned off. Press “POWER” and “INPUT” keys at the same time, and hold for more than 3 seconds. Release the “POWER” button first and then immediately the “INPUT” button. The PDP set turns on in adjustment mode with OSD as follows.



FIRMWARE VERSION

ADJUST MODE XXXX

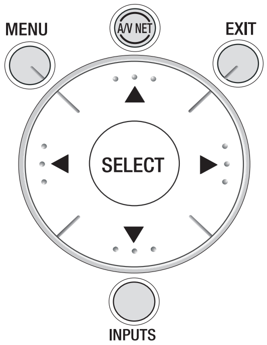
RGB(480P) ☐
Sub Cont. Adj. ☐
FACT RESET ☐

To escape from Adjustment Mode press “INPUT” key to exit service adjustment mode.
Table 2 can be found on pages 38-46.

1.2 CHANGING DATA AND SELECTING ADJUSTMENT CODE

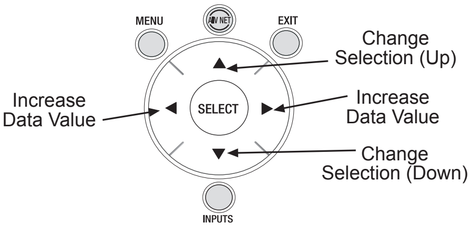
When the PDP set is in adjustment mode, the cursor ◀, ▶, ▲, ▼ and MENU keys of the remote control or front panel may be used as the adjustment keys.

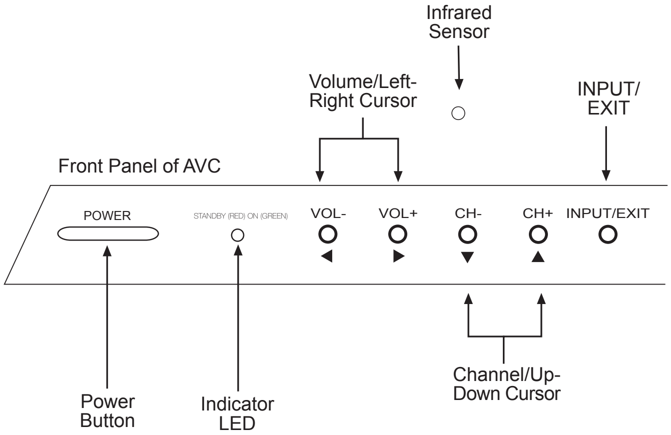
A. Use any Hitachi remote control when making an adjustment.
▲, ▼ keys are used for selecting adjustment code.


MENU
A/V NET
EXIT
SELECT
INPUTS

◀, ▶ keys are used for changing data values.
MENU key is used to advance through the adjustment mode menus and pages.

Remote Control Buttons


MENU
A/V NET
EXIT
Change Selection (Up)
Increase Data Value
SELECT
Increase Data Value
Change Selection (Down)
INPUTS


Infrared Sensor
Volume/Left-Right Cursor
INPUT/EXIT
Front Panel of AVC
POWER
STANDBY (RED) ON (GREEN)
VOL-
VOL+
CH-
CH+
INPUT/EXIT
Power Button
Indicator LED
Channel/Up-Down Cursor

B. To make a selection, use the CURSOR keys on the AVC front control panel or the Remote Control.

C. After finishing the necessary adjustment press the R/C EXIT key or EXIT key on the front panel.
Adjustment mode is released and PDP set returns to normal condition.

2 MEMORY INITIALIZE

2.1 MEMORY INITIALIZE OPERATION

NOTE: The execution of this function returns the adjustment codes to the preset values, therefore, **adjustment data will be lost**.

There are two procedures for memory initialize, this is the first.

Procedure 1

(1) Enter Adjustment mode by the method described in sub-items 1.1 and 1.2 from item 1 (“Adjustment procedure start up”).
(2) Get to the second page of Adjust Mode by pressing remote control “Menu” key once, or with either the R/C or front panel ▲, ▼ cursor keys several times.
(3) Select MEMORY INIT adjust code.
(4) Activate MEMORY INIT by pressing ▶ cursor key for more than 3 seconds.
(5) Check that the receiving channel goes to CH03. Unit is set to preset values.

BACK TO ADJUSTMENTS

Procedure 2

(1) Short PRST connector on the AVC AV PWB and check that the set return to delivery settings (CH 03).
(2) Do not unplug from AC outlet until this operation is completed and do not perform any key operation either. After this operation, each factory setting and adjust mode data should reset to delivery setting automatically.

2.2 FACTORY AND SERVICE ADJUSTMENTS

The adjustment item that is affected by the memory initialize operation is shown below:

	Initialization		Adjustment		
Adj. Items	Memory Init.	W/B Init.(No need to use)	change of FC-unit	change of PDP-module or change of I002(EEPROM) on SIG/AUDIO PWB	change of I003(EEPROM) on AV PWB or Memory Init.
Video white blance Adj.		affect		Adj.	
PC white blance Adj.		affect		Adj.	
Video RGB Amplitude Adj.			Adj.		
PCRGB Amplitude Adj.			Adj.		
Sub-contrast Adj.	affect (M-CONT4; S-CONT4)				Adj.

3 AMPLITUDE ADJUSTMENT (AVC CENTER)

3.1 RGB AMPLITUDE ADJUSTMENT

Preparation

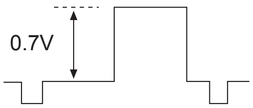
(1) Select “Video” - “Picture Mode” - “Day” - “Reset”. Set “Reset” of “Video” menu when PC input is selected.
(2) Input 525p(480p) of RGB amplitude adj. signal into INPUT1(Component) input.
(3) Input VGA(60Hz) RGB amplitude adj. signal into RGB input.

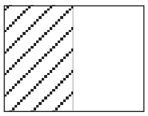
Note: Perform pre heat-run for more than 20 min. before adjusting.

Adjustment

(1) Receive 525p(480p) signal (Aspect 16:9 Standard).
(2) Select ‘RGB(480p)’ of Service Adj. menu. Press right cursor key (▶) over 2 seconds and have it perform automatic adjustment. When it’s completed, ‘Auto Adjusting’ on the screen will disappear.
(3) Receive PC signal (VGA(60Hz)), (Aspect Full).
(4) Similarly as (2), select ‘RGB(PC)’ of Service Adj. Menu, by pressing SEL button. Press ▶ for 2 sec. to do automatic adjustment.

-Remarks
RGB amplitude adj. signal





Black White

Recommended Equipment:
ASTRO VG-823 Digital Video Generator with RB-649 Remote Box.

3.2 SUB-CONTRAST ADJUSTMENT

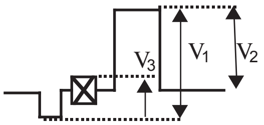
Preparation

Receive Sub-contrast adjustment signal (Fig. 1).

Adjustment

(1) Select ‘SUB CONTRAST’ of Service Adj. Menu. Press ▶ for over 2 seconds and have it perform automatic adjustment. When it’s completed, ‘Auto Adjusting’ on the screen will be disappeared.

Fig. 1
Full White



(RF Input ANT A))
V_1=1.0 Vp-p (when
V_2=100IRE with
V_3=7.51IRE)

3.3 BRIGHTNESS CHECK

Preparation

(1) Start checking 20 minutes or more after the power is turned ON.
(2) Receive the color bar signal.
(3) The vertical incident illumination on the screen should be 20 lux or less.
(4) Picture Format is 16:9 standard mode.
(5) Select Day mode and reset.

Checking Procedure

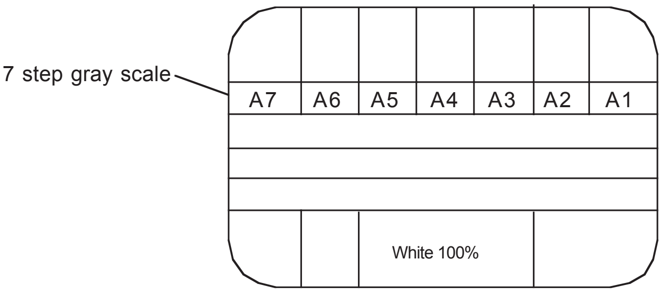
(1) Check the brightness as below.

	AVC75
Can be seen at black	A3*
Can be seen slightly from black	A5*

Note: If set black level is NG, readjust item 3.1 RGB amp. adj. and 3.2 Sub Contrast adj.

Measuring Conditions

(1) At the signal electric field strength 75± dBμ, the$^{10}_{0}$ specification mentioned above should be satisfied.
(2) At the input electric field 46-106dBμ, there should be no abnormality.
* From color bar pattern below.



Color Bar Signal

A4 has tolerance.
A4 can be between black and
Slightly from black.

BACK TO ADJUSTMENTS

4. Vs, Va voltage adjustment

Adjustment part:

-Preparation

1.Turn on the set and perform pre-heat run more than 1 minute with a snow noize screen.

2.Receive full black pattern (blanking level) signal (or Video No signal; in this case, it will be autmatically turned off after a few seconds because of power save function).

3.Connect voltmeter leads to the Vs or Va and GND test points on power unit.
(Measurement error of voltmeter should be Less than 0.02V)

-Adjustment

(1)Turn VsADJ to adjust Vs voltage to be within 0.1V of the value specified in the label on the panel. *1

(2)Turn VaADJ to adjust Vs voltage to be within 0.2V of the value specified in the label on the panel. *1

(3)Reconfirm that Vs voltage remains within 0.1V of the value.Readjust if Itís outside the margin.

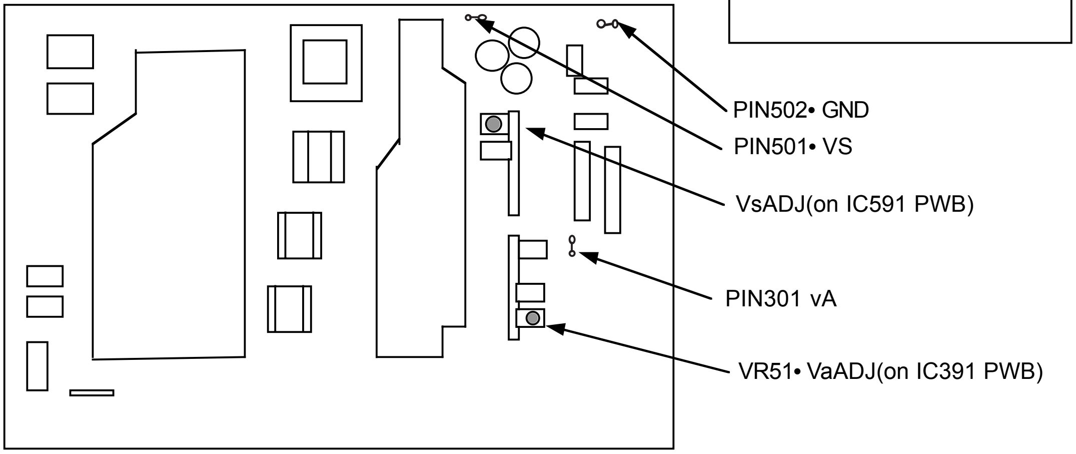
Label example*2

<LOT>N6
Vs=80.0V Va=60.0V
V• =140.0V Vx=60.0V

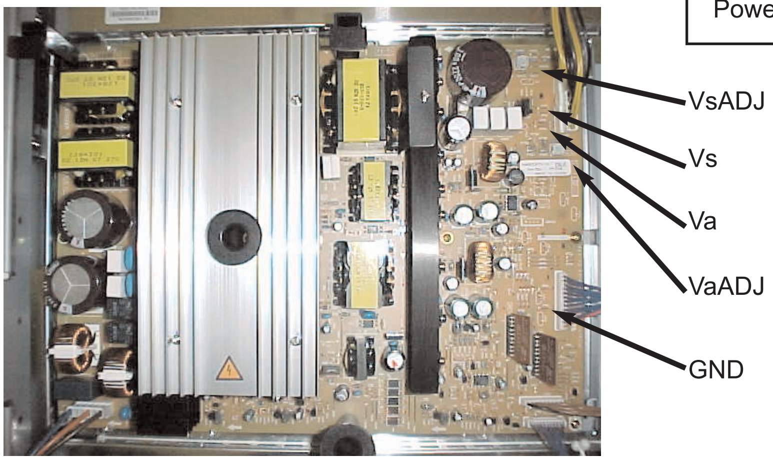
-Remarks

*1. Permissive level of voltage in case sufficient time of heat-run performed.
Vs: within 0.45V, Va: within 0.55V

Power unit for 42 inch



Power Unit for 55 inch



BACK TO ADJUSTMENTS

5 WHITE BALANCE ADJUSTMENTS (PDP MONITOR)

General Notes for White Balance

(1) If the incident illumination is more than 20 lux, change the environment (location, lighting, etc.) and ensure it to be less than 20 lux.
(2) At least one of the color drive codes must stay at its maximum value, FF_H.
(3) WBC code must be 00 during W/B adjustment.

5.1 VIDEO COLOR TEMPERATURE ADJUSTMENT (HIGH)

Preparation 1

(1) Set the output of signal generator to white raster. (Ratio:100%)
(2)

Component signal	42”	55”
Video level:	0.714Vp-p	0.280Vp-p
SYNC:	0.286Vp-p	0.286Vp-p
Set-up level:	0V	0V

(3) Input white raster signal into COMPONENT input terminal of AVC.
(4) Set user control to Day mode. (Picture Mode)
(5) Confirm that the mode is set as “Factory Setting Mode”.
(6) Aspect: ① Video: Expanded
② PC: FULL

Preparation 2

(1) Set service adjustment menu to “DEVICE ADJUST MODE”.
(2) Set WBC to “0”.

Adjustment

(1) Perform the following adjustment with the remote control.
(2) Set the CRT color analyzer (CA-100) at the center of the panel.
(3) Set color temperature to “HIGH”.
(4) Ensure that Adjustment R/G/B DRIVE (HIGH) are all set as FF.
(5) After receiving White raster signal, step down the two (or one) among Adjustment R/G/B DRIVE (HIGH) and adjust the value shown in the following:

Specification
Video Color temperature (HIGH)
42"
x = 0.268 ± 0.005
y = 0.283 ± 0.005
(Color temp: 12000K)
55"
x = 0.264 ± 0.005
y = 0.263 ± 0.005
(Color temp: 15000K)

At least one of the data should be FF.

Remarks

(1) Color temperature should be adjusted under the condition in which the screen is the brightest, thus the initial value for adjustment is set to its maximum.
(2) Adjustment is made by reducing brightness only. Reduce a bright color for adjustment.
(3) Video color temperature & Adjustment No. are the same, but addresses in the memory are different, thus there’s no problem.

5.2 VIDEO COLOR TEMPERATURE ADJUSTMENT (MEDIUM)

Preparation

(1) Same as “Video Color Temperature adjustment: (HIGH)”. For 55” the video level changes to 0.700Vp-p.

Adjustment

(1) Perform the following adjustment with the remote control.
(2) Set the CRT color analyzer (CA-100) at the center of the panel.
(3) Set color temperature to “MEDIUM”, using SEL key.
(4) Ensure that Adjustment R/G/B DRIVE (MEDIUM) are all set as FF.
(5) After receiving White raster signal, step down the two (or one) among Adjustment R/B/G DRIVE (MEDIUM) and adjust the value shown below.

Specification
Video Color temperature (MED)
42"
x = 0.285 ± 0.005
y = 0.293 ± 0.005
(Color temp: 9300K)
55"
x = 0.285 ± 0.005
y = 0.293 ± 0.005
(Color temp: 9300K)

At least one of the data should be FF.

BACK TO ADJUSTMENTS

5.3 VIDEO COLOR TEMPERATURE ADJUSTMENT (STD)

Preparation

(1) Same as "Video Color Temperature adjustment: (HIGH)". For 55" video level changes to 0.700Vp-p.

Adjustment

(1) Perform the following adjustment with the remote control.
(2) Set the CRT color analyzer (CA-100) at the center of the panel.
(3) Set color temperature to "STD".
(4) Ensure that Adjustment R/G/B DRIVE (STD) are all set as FF.
(5) After receiving White raster signal, step down the two (or one) among Adjustment R/B/G DRIVE (STD) and adjust the value shown below.

Specification
Video Color temperature (STD)
42"
x = 0.314 ± 0.005
y = 0.327 ± 0.005
(Color temp: 6500K)
55"
x = 0.314 ± 0.005
y = 0.327 ± 0.005
(Color temp: 6500K)

At least one of the data should be FF.

5.4 VIDEO COLOR TEMPERATURE ADJUSTMENT (B/W)

Preparation

(1) Same as "Video Color Temperature adjustment: (HIGH)". For 55" video level changes to 0.700Vp-p.

Adjustment

(1) Perform the following adjustment with the remote control.
(2) Set the CRT color analyzer (CA-100) at the center of the panel.
(3) Ensure that Adjustment R/G/B DRIVE (B/W) are all set as FF.
(4) After receiving White Raster signal, step down the two (or one) among Adjustment R/B/G DRIVE (B/W) and adjust the value shown below.

Specification
Video Color temperature (B/W)
42"
x = 0.335 ± 0.005
y = 0.343 ± 0.005
(Color temp: 5400K)
55"
x = 0.335 ± 0.005
y = 0.343 ± 0.005
(Color temp: 5400K)

At least one of the data should be FF.

Remarks

(1) Same as "Video Color Temperature adjustment (HIGH)"

5.5 PC COLOR TEMPERATURE ADJUSTMENT (HIGH)

Preparation

(1) This adjustment should be done after video color temperature adjustment.
(2) Confirm that it's set as factory adjustment mode.
(3) Input white raster (ratio 100%) into RGB terminals at VGA (75) 0.7V (No set-up).
(4) Set AVC to shipment.
(5) Confirm that the screen size is 'FULL'.

Adjustment

(1) Perform the following adjustment with the remote control.
(2) Set the CRT color analyzer (CA-100) at the center of the panel.
(3) Ensure that Adjustment R/G/B DRIVE (HIGH) are all set as FF.
(4) After receiving PC signal, step down the two (or one) among Adjustment R/B/G DRIVE (HIGH) and adjust the value shown below.

Specification
PC Color temperature (HIGH)
42"
x = 0.268 ± 0.005
y = 0.283 ± 0.005
(Color temp: 12000K)
55"
x = 0.268 ± 0.005
y = 0.283 ± 0.005
(Color temp: 12000K)

At least one of the data should be FF.

(5) Write Adjustment value of video color temperature to the equivalent PC color temperature adjustment items..

Video Color Temperature		PC Color Temperature
R/G/B DRIVE (MEDIUM) data	→	R/G/B DRIVE (MEDIUM) data
R/G/B DRIVE (STD) data	→	R/G/B DRIVE (STD) data
R/G/B DRIVE (B/W) data	→	R/G/B DRIVE (B/W) data

Remarks

(1) Color temperature should be adjusted under the condition in which the screen is the brightest, thus the initial value for adjustment is set its maximum.
(2) Adjustment is made by reducing brightness only. Reduce a bright color for adjustment.
(3) Video color temperature & Adjustment No. are the same, but addresses in the memory are different, thus there's no problem.

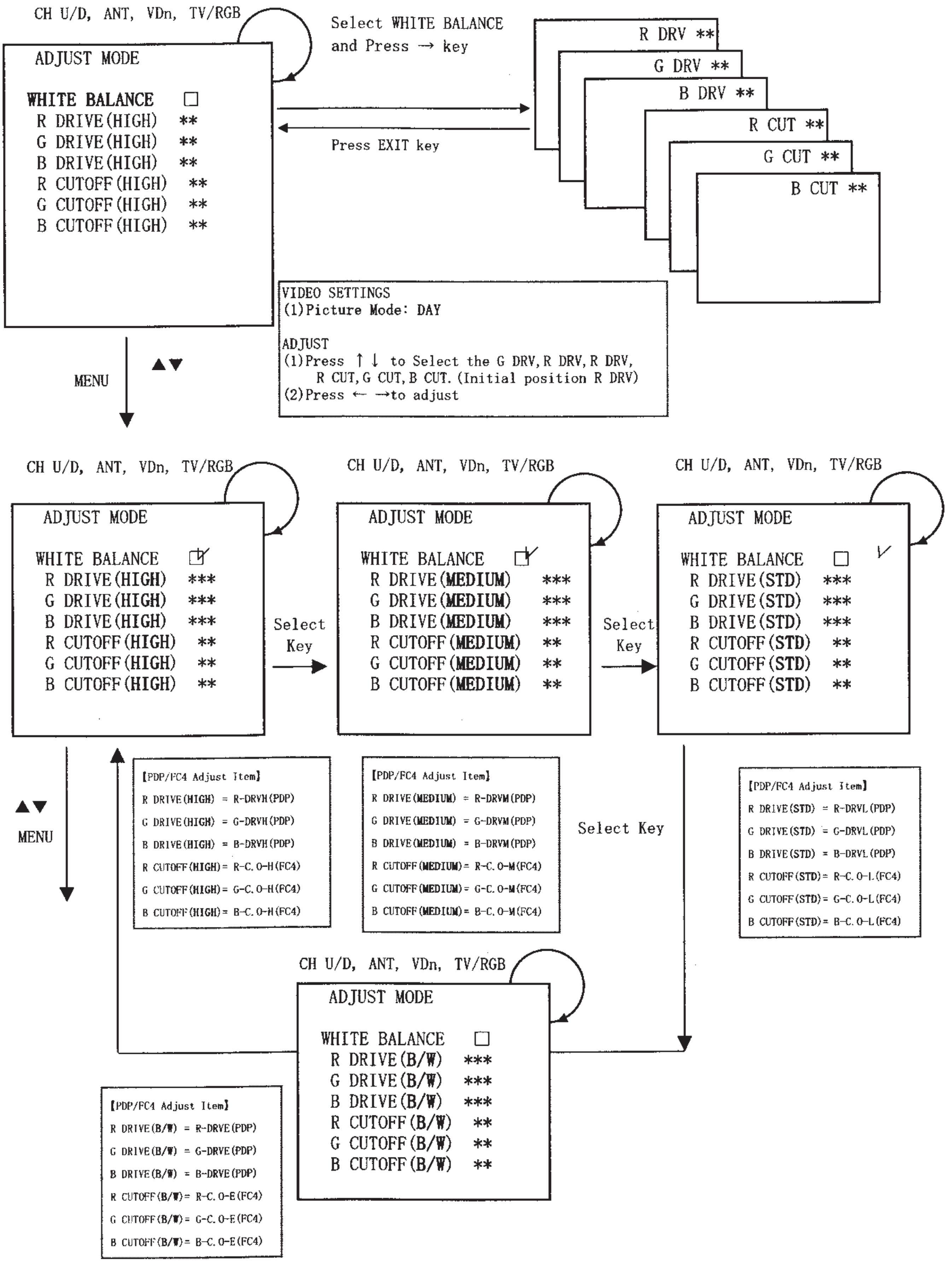
5.6 COLOR TEMPERATURE CORRECTION SETTING

This adjustment should be done after color temperature adjustment (for 42" only).

(1) Set service adjustment menu to "DEVICE ADJUST MODE - PDP".
(2) Set WBC to "2".

BACK TO ADJUSTMENTS

5.7 WHITE BALANCE ADJUSTMENT OSD FLOW DIAGRAM


CH U/D, ANT, VDn, TV/RGB
ADJUST MODE
WHITE BALANCE ☐
R DRIVE(HIGH) **
G DRIVE(HIGH) **
B DRIVE(HIGH) **
R CUTOFF(HIGH) **
G CUTOFF(HIGH) **
B CUTOFF(HIGH) **
Select WHITE BALANCE and Press → key
Press EXIT key
R DRV **
G DRV **
B DRV **
R CUT **
G CUT **
B CUT **
MENU
▲▼
CH U/D, ANT, VDn, TV/RGB
ADJUST MODE
WHITE BALANCE ☑
R DRIVE(HIGH) ***
G DRIVE(HIGH) ***
B DRIVE(HIGH) ***
R CUTOFF(HIGH) **
G CUTOFF(HIGH) **
B CUTOFF(HIGH) **
Select Key
CH U/D, ANT, VDn, TV/RGB
ADJUST MODE
WHITE BALANCE ☑
R DRIVE(MEDIUM) ***
G DRIVE(MEDIUM) ***
B DRIVE(MEDIUM) ***
R CUTOFF(MEDIUM) **
G CUTOFF(MEDIUM) **
B CUTOFF(MEDIUM) **
Select Key
CH U/D, ANT, VDn, TV/RGB
ADJUST MODE
WHITE BALANCE ☐ ✓
R DRIVE(STD) ***
G DRIVE(STD) ***
B DRIVE(STD) ***
R CUTOFF(STD) **
G CUTOFF(STD) **
B CUTOFF(STD) **
▲▼
MENU
Select Key
CH U/D, ANT, VDn, TV/RGB
ADJUST MODE
WHITE BALANCE ☐
R DRIVE(B/W) ***
G DRIVE(B/W) ***
B DRIVE(B/W) ***
R CUTOFF(B/W) **
G CUTOFF(B/W) **
B CUTOFF(B/W) **

VIDEO SETTINGS
(1)Picture Mode: DAY

ADJUST
(1)Press ↑ ↓ to Select the G DRV, R DRV, R DRV, R CUT, G CUT, B CUT. (Initial position R DRV)
(2)Press ← →to adjust

【PDP/FC4 Adjust Item】
R DRIVE(HIGH) = R-DRVH(PDP)
G DRIVE(HIGH) = G-DRVH(PDP)
B DRIVE(HIGH) = B-DRVH(PDP)
R CUTOFF(HIGH) = R-C.O-H(FC4)
G CUTOFF(HIGH) = G-C.O-H(FC4)
B CUTOFF(HIGH) = B-C.O-H(FC4)

【PDP/FC4 Adjust Item】
R DRIVE(MEDIUM) = R-DRVM(PDP)
G DRIVE(MEDIUM) = G-DRVM(PDP)
B DRIVE(MEDIUM) = B-DRVM(PDP)
R CUTOFF(MEDIUM) = R-C.O-M(FC4)
G CUTOFF(MEDIUM) = G-C.O-M(FC4)
B CUTOFF(MEDIUM) = B-C.O-M(FC4)

【PDP/FC4 Adjust Item】
R DRIVE(STD) = R-DRVL(PDP)
G DRIVE(STD) = G-DRVL(PDP)
B DRIVE(STD) = B-DRVL(PDP)
R CUTOFF(STD) = R-C.O-L(FC4)
G CUTOFF(STD) = G-C.O-L(FC4)
B CUTOFF(STD) = B-C.O-L(FC4)

【PDP/FC4 Adjust Item】
R DRIVE(B/W) = R-DRVE(PDP)
G DRIVE(B/W) = G-DRVE(PDP)
B DRIVE(B/W) = B-DRVE(PDP)
R CUTOFF(B/W) = R-C.O-E(FC4)
G CUTOFF(B/W) = G-C.O-E(FC4)
B CUTOFF(B/W) = B-C.O-E(FC4)

BACK TO ADJUSTMENTS

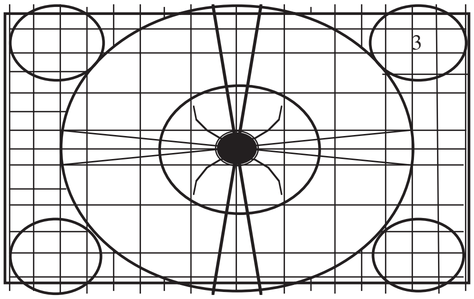
6. SCREEN CHECK

Preparation

(1) Set AC120±1V.
(2) Turn on the power and leave it more than 5 min.
(3) Receive circle pattern at 4:3 Expanded mode.
(4) Input 480p and 1080i circle pattern into Component 1. (ASPECT 16:9 Standard)
(5) Input XGA (60Hz) circle pattern into RGB. (ASPECT Full)

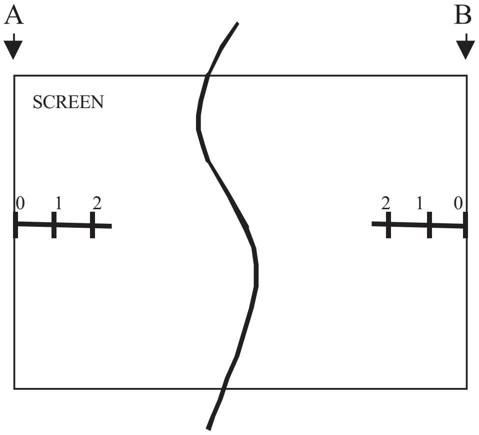
Checking

(1) Receive RF, 480p, 1080i and XGA (60Hz) signal, then check the following items 1~4:
    1. Check the symmetry of the pattern (right/left).
    2. Check the horizontal position and the balance (right/left).
    3. Check the symmetry of the pattern (top/bottom).
    4. Check the vertical position and the balance (top/bottom).



Remarks

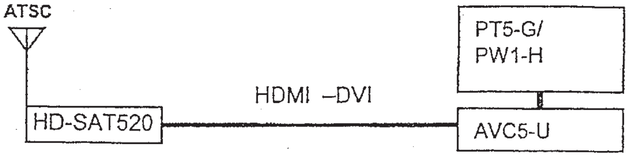
(1) RGB: XGA (60Hz).



SIGNAL	ASPECT	SPEC(A,B)
480i	4:3 Expanded	0 +/- 0.5
circle pattern	16:9 Standard	0 +/- 0.5

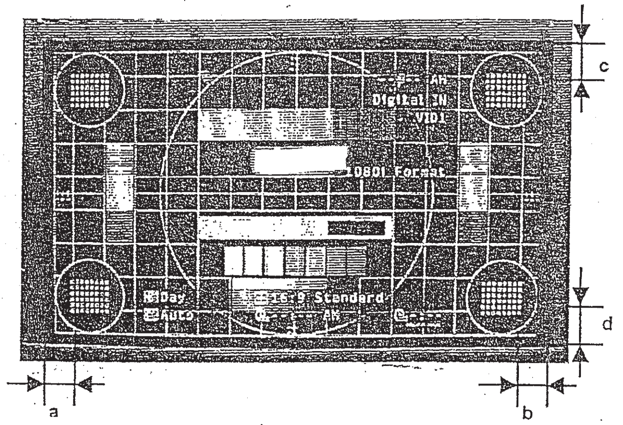
7. HDMI adjustment

a. DVI compatibility check
    Preparation
    1. Prepare HDTV signal generator.
    2. Select 1080i format
    3. Connect HDMI-DVI cable to the DVI input on the AVC.



b. DVI/HDCP/Timing (Display Position) Check
    1. Set 1080i crosshatch with black background, with a small color bar and small multi-burst. (Confirm that the picture appears as shown below)
    2. Press "INFO" button on remote control to confirm that "1080i Format" indication appears.
    3. Confirm that Horizontal and Vertical position meet the following spec.

Chassis	AVC5-U				unit
Screen Size	42"	55"			inch
a	±8	±8			mm
b	±8	±8			
c	±5	±5			
d	±5	±5			
Aspect	16:9 Standard	16:9 Standard		-	



8. FACTORY RESET

After all of the adjustments of main chassis are finished, perform FACTORY RESET.

(1) Enter Adjustment Mode by the method described in sub-items 1-1 and 1-2 from page 30. ("Adjustment Procedure Start-up").
(2) From the first menu in Adjustment Mode, select FACT RESET adjustment code.
(3) Activate FACT RESET by pressing "Right" cursor key once.
(4) Check that the receiving channel goes to CH03. Unit is set to factory settings.
(5) This procedure returns user settings to the values and states shown in Table 1 on the following pages.

BACK TO ADJUSTMENTS

9. SETTING for Delivery

USER Control Initialization (Factory Reset)

Function			Initial Data/Condition	Condition	AVC5-U	
					42	55
NTSC Channel			03 ch		X	
ATSC Channel			03-1ch	On DTV	X	
Input Mode			Ant A		X	
Favorite Channels			Not Registered		X	
Multi Window Mode			Off		X	
	PIP/POP/SPLIT		SPLIT		X	
	POP Position		Middle Right		X	
	PIP Position		Bottom Right		X	
	Freeze Mode		Main Freeze (1pix)		X	
	Surf Mode		Surf 12	Ant mode	X	
			Surf 3	Ant mode	-	
	Strobe Mode		Strobe 3		X	
Master Volume			20 Step		X	
Video						
	Picture Mode (Day/Night)		Day		X	
	Contrast		100%	Picture Mode “Day”	X	
	Brightness		50%	Picture Mode “Day”	X	
	Color		50%	Picture Mode “Day”	X	
	Tint		50%	Picture Mode “Day”	X	
	Sharpness		50%	Picture Mode “Day”	X	
	Color Temperature (High/Medium/Standard/Black&White)		High	Picture Mode “Day”	X	
	Black Enhancement (High/Middle/Low/Off)		Middle/Low	Picture Mode “Day”	X	X
	Contrast Mode (Dynamic/Auto/Normal)		Dynamic	Picture Mode “Day”	X	
	Color Management		Off		X	
	Back Light		50%		-	
	Phase	Magenta	50%		X	
		Red	50%		X	
		Yellow	50%		X	
		Green	50%		X	
		Cyan	50%		X	
		Blue	50%		X	
	Gain	Magenta	50%		X	
		Red	50%		X	
		Yellow	50%		X	
		Green	50%		X	
		Cyan	50%		X	
		Blue	50%		X	
	Color Decoding (RGB/R/G/B)		RGB		X	
		Red	50%		X	
		Green	50%		X	
		Color	50%	Picture Mode “Day”	X	
		Tint	50%	Picture Mode “Day”	X	
	Auto Color		Off	Picture Mode “Day”	X	
	Noise Reduction (Off/Low/High)		Low	Picture Mode “Day”	X	
	Auto Movie Mode		Off	Picture Mode “Day”	X	

9. SETTING for Delivery (continued)

Function	Initial Data/Condition	Condition	AVC5-U 42 55
Audio			
Treble	50%		X
Bass	65%		X
Balance	50%		X
SRS TruBass (High/Medium/Low/Off)	Medium		X
Dynamic Bass (High/Medium/Low/Off)	Medium		-
Matrix Surround (On/Off)	Off		X
Audio Source (Stereo/Mono/SAP)	Stereo		X
Internal Speakers (On/Off)	On		X
Auto Noise Cancel	Off		X
Perfect Volume	Off		X
DTV Language	1 (English)	On DTV	X
Digital Output (Dolby Digital/PCM)	Dolby Digital	On DTV	X
DRC (Dynamic Range Compression)	On	On DTV	X
Aspect			
16:9 Standard, 16:9 Zoom 4:3 Standard, 4:3 Expanded 4:3 Zoom1, 4:3 Zoom2	4:3 Expanded	Input Signal: "NTSC,480i,480p"	X
	16:9 Standard	Input Signal: 720p, 1080i	X
Auto Aspect	Off		X
Vertical Position	0		X
Channel Manager (for HDTV model)			
Set The Antenna	Cable to Ant A, Air to Ant B		X
Cable Source (Cable1/Cable2)	Cable1		X
Auto Channel Scan			X
Ant A	-		X
Ant B	-		X
Start/Cancel	-		X
Clear	-		X
Signal Meter	-		X
Channel List			X
Ant A			X
Scan	2~13 ch		X
Lock	Not Registered		X
Ant B			X
Scan	2~13 ch		X
Lock	Not Registered		X

9. SETTING for Delivery (continued)

Function	Initial Data/Condition	Condition	AVC5-U 42 55			
Locks						
Change Access Code	“0000”,”7777”		X			
Engage Lock						
Set Channel Lock	Not Registered		X			
Set Input Lock	Not Registered		X			
Set Front Panel Lock	Not Registered		X			
TV Time Lock						
Start/Stop Time	Not Registered		X			
Repeat (Once/Daily/Weekly/Off)	Not Registered		X			
Movie Rating	Not Registered		X			
TV Rating	Not Registered		X			
Canadian Rating (Eng.)	Not Registered		X			
Canadian Rating (Frn.)	Not Registered		X			
Timers						
Set the Clock						
Time Zone	PST		X			
Daylight Savings	Off		X			
Time	Not Registered		X			
Date	2004 01 01		X			
Set Sleep Timer	Not Registered		X			
Set Day/Night Timer						
Activate	Not checked		X			
Day Start	Not Registered		X			
Day End	Not Registered		X			
Set Event Timer (Event1/2/3/4)	Not Registered		X			
Set Timer Recording (Record 1/2/3/4)	Not Registered		X			

9. SETTING for Delivery (continued)

Function	Initial Data/Condition	Condition	AVC5-U 42 55			
Setup						
Menu Preference						
Menu Language	English		X			
Menu Background	Shaded		X			
Set The Inputs						
Input1 Rename	Reset (VID1)		X			
Input2 Rename	Reset (VID2)		X			
Auto Link (Auto/Remote/Off)	Off		X			
Input3 Rename	Reset (VID3)		X			
Input4 Rename	Reset (VID4)		X			
Input5 Rename	Reset (VID5)		X			
Video Power Save	On		X			
Set Black Side Panel	Off		X			
Set Closed Caption						
Caption Display	Auto		X			
Mode (Captions/Text)	Captions		X			
Channel (1/2/3/4)	Channel 1		X			
Digital Captions						
Service (1/2/3/4/5/6)	1		X			
Language	(English)		X			
Font (Default,1/2/3/4/5/6/7/8)	Default		X			
Size (Small/Standard/Large)	Standard		X			
Style (Standard/High Visibility)	Standard		X			
Set Monitor Out						
Video Out (TV Tuner Out / Monitor)	Monitor		X			
CableCARD Info.	-		X			
Set The AV Control	Off (Not Checked)		X			
Upgrades	-		X			
Power Swivel	Locked		X			
HDMI	Not detected		2			
Photo Input	Not detected		X			
IEEE1394	Not detected		X			
AV NET (IR Blaster)	Not registered		X			

9. SETTING for Delivery (continued)

Function	Initial Data	Condition	AVC5-U 42 55			
PC Mode						
Video						
Contrast	100%		X			
Brightness	50%		X			
Color Temperature	High		X			
Enhancer	Off		X			
Aspect						
Mode (Real/Normal/Full)	Normal		X			
WXGA (Off/1280X768/1366X768)	Off		X			
Setup						
Auto Adjust	—		X			
Horizontal Position	0		X			
Vsertical Position	0		X			
Horizontal Clock	0		X			
Clock Phase	0		X			
Reset	—		X			
Input Level	0.7V		X			
Black Side Pnael	Off		X			
Power Swivel	Locked		X			

10. I²C Adjustment Code and Data

OSD	Adj. Item	_	_	MAX(HEX)	Init(HEX)	Panel	ADJ.Value
CCD/V-CHIP		_	_	_	_	–	_
VSMPL	V Chip Adjust	_		FF	00	–	_
VPOLL	Refer to ìV Chip Spec.	_		FF	0F	–	_
VSTART	_	_		07	02	–	_
VTIMEO	_	_		1E	05	–	_
VSTATUS	_	_	_	07	02	–	_
CCD-HP	CCD	_	_	4F	00	–	_
CCD-CLK	_	_	_	4F	39	–	_
IR-BLASTER		_	_	_	_	–	_
IRWAIT	IR Blaster Adjustment	_	_	10	03	–	_
IRRPT	_	_	_	80	20	–	_
ISF	_	_	_	_	_	–	_
RDRV-H	_	00: MIN _ FF: MAX	R drive High	FF	FF	–	_
GDRV-H	W/B Adj._High	_	G drive High	FF	FF	–	_
BDRV-H	_	_	B drive High	FF	FF	–	_
RDRV-M	_	00: MIN _ FF: MAX	R drive Medium	FF	FF	–	_
GDRV-M	W/B Adj._Mi_	_	G drive Medium	FF	FF	–	_
BDRV-M	_	_	B drive Medium	FF	FF	–	_
RDRV-S	_	00: MIN _ FF: MAX	R drive Standard	FF	FF	–	_
GDRV-S	W/B Adj._Satndard	_	G drive Standard	FF	FF	–	_
BDRV-S	_	_	B drive Standard	FF	FF	–	_
RDRV-C	_	00: MIN _ FF: MAX	R drive B/W	FF	FF	–	_
GDRV-C	W/B Adj._B/W	_	G drive B/W	FF	FF	–	_
BDRV-C	_	_	B drive B/W	FF	FF	–	_
RCT-H	_	0:-31,1F:0,3F:+31	R cut off High	3F	1F	–	_
GCT-H	Cutoff_High	_	G cut off High	3F	1F	–	_
BCT-H	_	_	B cut off High	3F	1F	–	_
RCT-M	_	_	R cut off Mid	3F	1F	–	_
GCT-M	Cutoff_Mid	_	G cut off Mid	3F	1F	–	_
BCT-M	_	_	B cut off Mid	3F	1F	–	_
RCT-S	_	_	R cut off Standard	3F	1F	–	_
GCT-S	Cutoff_Standard	_	G cut off Standard	3F	1F	–	_
BCT-S	_	_	B cut off Standard	3F	1F	–	_
RCT-C	_	_	R cut off B/W	3F	1F	–	_
GCT-C	Cutoff_B/W	_	G cut off B/W	3F	1F	–	_
BCT-C	_	_	B cut off B/W	3F	1F	–	_
RGBOUT0	RGB Output Mode Switch	00:Normal, 01:R only D22=0 D15=1 D7=1, 02:G only D22=1 D15=0 D7=1, 03:B only D22=1 D15=1 D7=0	_ 0	3	00	–	–
YGSET0	YE AMP. Center data	_	_	7F	3F	_	_
RGSET0	R AMP. Center data	_	_	7F	3F	_	_
MGSET0	M AMP. Center data	_	_	7F	3F	_	_
BGSET0	B AMP. Center data	_	_	7F	3F	_	_
CYGSET0	CY AMP. Center data	_	_	7F	3F	_	_
GGSET0	G AMP. Center data	_	_	7F	3F	_	_
YHSET0	YE Phase Center data	_	_	7F	3F	_	_
RHSET0	R Phase Center data	_	_	7F	3F	_	_
MHSET0	M Phase Center data	_	_	7F	3F	_	_
BHSET0	B Phase Center data	_	_	7F	3F	_	_
CYHSET0	CY Phase Center data	_	_	7F	3F	_	_
GHSET0	G Phase Center data	_	_	7F	3F	_	_
BRTCET3	Brightness_Center_CM_	_	TV/NTSC	FF	80	32/37/42	_
BRTCET4	_	_	480i	FF	80	32/37/42	_
BRTCET5	_	_	480p	FF	80	32/37/42	_
BRTCETB	_	_	1080i/720p	FF	80	32/37/42	_
BRTCETP	_	_	PC	FF	80	32/37/42	_
cBRTCE3	_	_	TV/NTSC	FF	84	55	_
cBRTCE4	_	_	480i	FF	80	55	_
cBRTCE5	_	_	480p	FF	80	55	_
cBRTCEB	_	_	1080i/720p	FF	80	55	_
cBRTCEP	_	_	PC	FF	80	55	_
CNTCEN3	Contrast_Center_CM)	_	TV/NTSC	FF	89	_	_
CNTCENK	_	_	480i/480p/1080i/720p	FF	89	_	_
CNTCENP	_	_	PC	FF	80	_	_
CNTCEN8	_	_	Contrast Offset(Split)	FF	3C	_	_
NRMLCNT	_	_	Contrast Offset(Normal/Real)	FF	BC	_	_

10. I²C Adjustment Code and Data (Continued)

CLR-3	color(Center Adjustment)	_	TV/NTSC	7F	4B	32/37/42	_
CLR-E	_	_	SDTV(480i/480p)	7F	50	32/37/42	_
CLR-F	_	_	HDTV(1080i/720p)	7F	61	32/37/42	_
cCLR-3	_	_	TV/NTSC	7F	59	55	_
cCLR-E	_	_	SDTV(480i/480p)	7F	5E	55	_
cCLR-F	_	_	HDTV(1080i/720p)	7F	60	55	_
TINT-3	Tint (Center Adjustment)	_	TV/NTSC	FF	85	32/37/42	_
TINT-E	_	_	SDTV(480i/480p)	FF	85	32/37/42	_
TINT-F	_	_	HDTV(1080i/720p)	FF	75	32/37/42	_
cTINT-3	_	_	TV/NTSC	FF	91	55	_
cTINT-E	_	_	SDTV(480i/480p)	FF	91	55	_
cTINT-F	_	_	HDTV(1080i/720p)	FF	85	55	_
SHP-3	Sharpness	-10 dB _ +15 dB	TV/NTSC	1F	12	32/37/42	_
SHP1-NR	(Center Adjustment)	_	TV-NR	1F	0D	32/37/42	_
SHP-4	_	_	480i	1F	0A	32/37/42	_
SHPD-NR	_	_	NTSC/480i-NR	1F	05	32/37/42	_
SHP-5	_	_	480p	1F	0C	32/37/42	_
SHP-6	_	_	720p	1F	0B	32/37/42	_
SHP-7	_	_	1080i	1F	11	32/37/42	_
SHPJ-NR	_	_	480p/720p/1080i-NR	1F	06	32/37/42	_
cSHP-3	_	_	TV/NTSC	1F	12	55	_
cSHP1NR	_	_	TV-NR	1F	0D	55	_
cSHP-4	_	480i	1F	0B		55	_
cSHD-NR	_	NTSC/48	1i-NR 1F	05		55	_
cSHP-5	_	480p	1F	0C		55	_
cSHP-6	_	720p	1F	0B		55	_
cSHP-7	_	1080i	1F	0A		55	_
cSHJ-NR	_	480p/720	p/1080i-NR 1F	06		55	_
BSPH	BLACK STRETCH gain	0:-31,1F:0,3F:+31	High	3F	30	–	_
BSPM	_	_	Middle	3F	1F	–	_
BSPL	_	_	Low	3F	17	–	_
P MODE	_	_	_	–	–	–	–
CONTD	user menu (Contrast)	00(0%) - 68(100%) - 75(110%)	Day	4B	44	32/37/42	_
CONTN	_	69-75 : Overdrive	Night	4B	3E	32/37/42	_
BRTD	user menu (Brightness)	00(0%) - 60(100%)	Day	3C	1E	32/37/42	_
BRTN	_	_	Night	3C	20	32/37/42	_
COLORD	user_menu (color)	00(0%) - 60(100%)	Day	3C	1E	32/37/42	_
COLORN	_	_	Night	3C	0F	32/37/42	_
TINTD	user_menu_(Tint)	00(0%) - 60(100%)	Day	3C	1E	32/37/42	_
TINTN	_	_	Night	3C	1E	32/37/42	_
SHARPD	user_menu_(Sharpness)	00(0%) - 30(100%)	Day	1E	0F	32/37/42	_
SHARPN	_	_	Night	1E	0C	32/37/42	_
CLTMPD	user_menu_(color temp)	00:Cool,01:Normal,02:Warm,03:B/W	Day	03	00	32/37/42	_
CLTMPN	_	_	Night	03	02	32/37/42	_
BLKEND	user_menu_(Black_Enhancement)	0:off,01:Low,02:Middle03:,High	Day	03	02	32/37/42	_
BLKENN	_	_	Night	03	00	32/37/42	_
NOREDD	user_menu_(Noise_Reduction)	00:OFF ,01:LOW,02:HIGH	Day	02	01	32/37/42	_
NOREDN	_	_	Night	02	00	32/37/42	_
cCONTD	user menu (Contrast)	00(0%) - 68(100%) - 75(110%)	Day	4B	44	55	_
cCONTN	_	69-75 : Overdrive	Night	4B	3E	55	_
cBRTD	user menu (Brightness)	00(0%) - 60(100%)	Day	3C	1E	55	_
cBRTN	_	_	Night	3C	20	55	_
cCOLORD	user_menu (color)	00(0%) - 60(100%)	Day	3C	1E	55	_
cCOLORN	_	_	Night	3C	0F	55	_
cTINTD	user_menu_(Tint)	00(0%) - 60(100%)	Day	3C	1E	55	_
cTINTN	_	_	Night	3C	1E	55	_
cSHARPD	user_menu_(Sharpness)	00(0%) - 30(100%)	Day	1E	0F	55	_
cSHARPN	_	_	Night	1E	0C	55	_
cCLTMPD	user_menu_(color temp)	00:Cool,01:Normal,02:Warm,03:B/W	Day	03	00	55	_
cCLTMPN	_	_	Night	03	02	55	_
cBLKEND	user_menu_(Black_Enhancement)	0:off,01:Low,02:Middle03:,High	Day	03	01	55	_
cBLKENN	_	_	Night	03	00	55	_
cNOREDD	user_menu_(Noise_Reduction)	00:OFF ,01:LOW,02:HIGH	Day	02	01	55	_
cNOREDN	_	_	Night	02	00	55	_
FC4	_	_	_	–	–	–	–
MVPH-6	Main_Vertical_position	_	720p	7F	3F	_	_
MVPH-7	_	_	1080i	7F	3F	_	_
MHPH-3	Main_Horizontal_position_offset	_	TV/NTSC	FF	80	_	_
MHPH-4	_	_	480i	FF	80	_	_
MHPH-5	_	_	480p	FF	80	_	_
MHPH-6	_	_	720p	FF	80	_	_

10. I²C Adjustment Code and Data (Continued)

MHPH-7	_	_	1080i	FF	80	_	_
MHPHO4	_	_	480i_HDMI,DVI	FF	73	_	_
MHPHO5	_	_	480p_HDMI,DVI	FF	81	_	_
MHPHO6	_	_	720p_HDMI,DVI	FF	58	_	_
MHPHO7	_	_	1080i_HDMI,DVI	FF	55	_	_
MHPH-R	_	_	VGA_HDMI,DVI	FF	9E	_	_
MHPHL6	_	_	720p_SAMSUNG	FF	79	_	_
MHPHL7	_	_	1080i_SAMSUNG	FF	79	_	_
SHPH-3	Sub_Horizontal_position_offset	_	TV/NTSC	FF	80	_	_
SHPH-4	_	_	480i	FF	80	_	_
SHPH-5	_	_	480p	FF	80	_	_
SHPH-6	_	_	720p	FF	80	_	_
SHPH-7	_	_	1080i	FF	80	_	_
SHPHO4	_	_	480i_HDMI,DVI	FF	72	_	_
SHPHO5	_	_	480p_HDMI,DVI	FF	80	_	_
SHPHO6	_	_	720p_HDMI,DVI	FF	54	_	_
SHPHO7	_	_	1080i_HDMI,DVI	FF	57	_	_
SHPH-R	_	_	VGA_HDMI,DVI	FF	9D	_	_
SHPHL6	_	_	720p_SAMSUNG	FF	76	_	_
SHPHL7	_	_	1080i_SAMSUNG	FF	7A	_	_
DYGAMDD	Dynamic Gamma mode	00:Off	Contrast mode Dynamic Day	03	03	_	_
DYGAMDN	(except PC)	01:Standard	Contrast mode Dynamic Night	03	02	_	_
DYGAMND	_	02:Linear	Contrast mode Normal Day	03	01	_	_
DYGAMNN	_	03:Dynamic Gamma	Contrast mode Normal Night	03	02	_	_
DYGAMAD	_	_	Contrast mode AUTO Day	03	01	_	_
DYGAMAN	_	_	Contrast mode AUTO Night	03	02	_	_
AUTCON	Auto Contrast ON/OFF	00:OFF,01:ON	Contrast mode Dynamic	01	00	_	_
BLK-LV3	RGB_AMP Black Level	_	TV/VIDEO	FF	7F	_	_
BLK-LVP	_	_	PC	FF	7F	_	_
RGBAMP3	Reference_AMP._RGB_AMP)	_	TV/VIDEO	FF	7F	_	_
RGBAMPP	_	_	PC	FF	7F	_	_
HHPF-G	Horizontal Filter Switch	_	TV/NTSC/480i	01	00	32	_
HHPF-J	_	_	480p/1080i/720p	01	00	32	_
aHHPFG	_	_	TV/NTSC/480i	01	00	37-42	_
aHHPFJ	_	_	480p/1080i/720p	01	00	37-42	_
cHHPFG	_	_	TV/NTSC/480i	01	00	55	_
cHHPFJ	_	_	480p/1080i/720p	01	00	55	_
YHAEN-1	Horizontal Expanded Enhance	_	TV	03	03	32/37/42	_
YHEN1NR	_	_	TV-NR	03	00	32/37/42	_
YHAEN-2	_	_	NTSC	03	01	32/37/42	_
YHAEN-4	_	_	480i	03	00	32/37/42	_
YHENDNR	_	_	NTSC/480i-NR	03	00	32/37/42	_
YHAEN-B	_	_	1080i/720p	03	03	32/37/42	_
YHAEN-5	_	_	480p	03	03	32/37/42	_
YHENJNR	_	_	480p/1080i/720p-NR	03	00	32/37/42	_
cYHAE-1	_	_	TV	03	03	55	_
cYHE1NR	_	_	TV-NR	03	00	55	_
cYHAE-2	_	_	NTSC	03	01	55	_
cYHAE-4	_	_	480i	03	00	55	_
cYHEDNR	_	_	NTSC/480i-NR	03	00	55	_
cYHAE-B	_	_	1080i/720p	03	03	55	_
cYHAE-5	_	_	480p	03	03	55	_
cYHEJNR	_	_	480p/1080i/720p-NR	03	00	55	_
YVAEN-1	Vertical Expanded Enhance	_	TV	03	03	32/37/42	_
YVEN1NR	_	_	TV-NR	03	00	32/37/42	_
YVAEN-2	_	_	NTSC	03	03	32/37/42	_
YVAEN-4	_	_	480i	03	03	32/37/42	_
YVENDNR	_	_	NTSC/480i-NR	03	00	32/37/42	_
YVAEN-B	_	_	1080i/720p	03	03	32/37/42	_
YVAEN-5	_	_	480p	03	03	32/37/42	_
YVENJNR	_	_	480p/1080i/720p-NR	03	00	32/37/42	_
cYVAE-1	_	_	TV	03	00	55	_
cYVE1NR	_	_	TV-NR	03	00	55	_
cYVAE-2	_	_	NTSC	03	00	55	_
cYVAE-4	_	_	480i	03	03	55	_
cYVEDNR	_	_	NTSC/480i-NR	03	00	55	_
cYVAE-B	_	_	1080i/720p	03	03	55	_
cYVAE-5	_	_	480p	03	03	55	_
cYVEJNR	_	_	480p/1080i/720p-NR	03	00	55	_
HEACR-1	Horizontal Coring Level(Expanded Enhance_	_	TV	0F	00	32/37/42	_
HEA1-NR	_	_	TV-NR	0F	01	32/37/42	_

10. I²C Adjustment Code and Data (Continued)

HEACR-2	_	_	NTSC	0F	00	32/37/42	_
HEAD-NR	_	_	NTSC/480i-NR	0F	03	32/37/42	_
HEACR-4	_	_	480i	0F	00	32/37/42	_
HEACR-5	_	_	480p	0F	01	32/37/42	_
HEACR-B	_	_	1080i720p	0F	05	32/37/42	_
HEAJ-NR	_	_	480p/1080i/720p-NR	0F	05	32/37/42	_
HEACR-P	_	_	PC	0F	01	32/37/42	_
cHEAC-1	_	_	TV	0F	01	55	_
cHE1-NR	_	_	TV-NR	0F	01	55	_
cHEAC-2	_	_	NTSC	0F	00	55	_
cHED-NR	_	_	NTSC/480i-NR	0F	03	55	_
cHEAR-4	_	_	480i	0F	00	55	_
cHEAC-5	_	_	480p	0F	01	55	_
cHEAC-B	_	_	1080i720p	0F	01	55	_
cHEJ-NR	_	_	480p/1080i/720p-NR	0F	03	55	_
cHEAR-P	_	_	PC	0F	01	55	_
VEACR-1	Vertical Coring Level(Expanded Enhance_	_	TV	0F	02	32/37/42	_
VEA1-NR	_	_	TV-NR	0F	02	32/37/42	_
VEACR-2	_	_	NTSC	0F	01	32/37/42	_
VEAD-NR	_	_	NTSC/480i-NR	0F	03	32/37/42	_
VEACR-4	_	_	480i	0F	00	32/37/42	_
VEACR-5	_	_	480p	0F	01	32/37/42	_
VEACR-B	_	_	1080i720p	0F	0F	32/37/42	_
VEAJ-NR	_	_	480p/1080i/720p-NR	0F	0F	32/37/42	_
VEACR-P	_	_	PC	0F	00	32/37/42	_
cVEAC-1	_	_	TV	0F	02	55	_
cVE1-NR	_	_	TV-NR	0F	02	55	_
cVEAC-2	_	_	NTSC	0F	01	55	_
cVED-NR	_	_	NTSC/480i-NR	0F	03	55	_
cVEAC-4	_	_	480i	0F	00	55	_
cVEAC-5	_	_	480p	0F	01	55	_
cVEAC-B	_	_	1080i720p	0F	01	55	_
cVEJ-NR	_	_	480p/1080i/720p-NR	0F	0F	55	_
cVEAC-P	_	_	PC	0F	00	55	_
VDB-G	Y Vertical DSB Gain	_	ANT/NTSC/480i	03	03	32/37/42	_
VDB-5	_	_	480p	03	00	32/37/42	_
VDB-B	_	_	1080i/720p	03	03	32/37/42	_
cVDB-G	_	_	ANT/NTSC/480i	03	00	55	_
cVDB-5	_	_	480p	03	00	55	_
cVDB-B	_	_	1080i/720p	03	02	55	_
VDBC-G	Y Vertical DSB Coring	_	ANT/NTSC/480i	07	07	32/37/42	_
VDBC-J	_	_	480p/1080i/720p	07	03	32/37/42	_
cVDBC-G	_	_	ANT/NTSC/480i	07	07	55	_
cVDBC-J	_	_	480p/1080i/720p	07	00	55	_
VE-G	Y Vertical Enhance Gain	_	ANT/NTSC/480i	0F	0F	32/37/42	_
VE-5	_	_	480p	0F	04	32/37/42	_
VE-B	_	_	1080i/720p	0F	0F	32/37/42	_
cVE-G	_	_	ANT/NTSC/480i	0F	0F	55	_
cVE-5	_	_	480p	0F	04	55	_
cVE-B	_	_	1080i/720p	0F	0F	55	_
VNLP-G	Y Vertical Nonlinear Peaking	_	ANT/NTSC/480i	3F	00	32/37/42	_
VNLP-J	_	_	480p/1080i/720p	3F	00	32/37/42	_
cVNLPG	_	_	ANT/NTSC/480i	3F	00	55	_
cVNLPJ	_	_	480p/1080i/720p	3F	00	55	_
VECPO-G	Y Vertical Enhance CLIP Off	_	ANT/NTSC/480i	01	01	32/37/42	_
VECPO-J	_	_	480p/1080i/720p	01	00	32/37/42	_
cVECPOG	_	_	ANT/NTSC/480i	01	01	55	_
cVECPOJ	_	_	480p/1080i/720p	01	00	55	_
VECLP-G	Y Vertical CLIP Offset Level	_	ANT/NTSC/480i	0F	0F	32/37/42	_
VECLP-J	_	_	480p/1080i/720p	0F	00	32/37/42	_
cVECLPG	_	_	ANT/NTSC/480i	0F	0F	55	_
cVECLPJ	_	_	480p/1080i/720p	0F	08	55	_
HDSB-G	Y Horizontal DSB Gain	_	ANT/NTSC/480i	03	02	32/37/42	_
HDB-4	_	_	480i	03	03	32/37/42	_
HDB-5	_	_	480p	03	00	32/37/42	_
HDB-B	_	_	1080i/720p	03	02	32/37/42	_
cHDSB-G	_	_	ANT/NTSC/480i	03	03	55	_
cHDB-4	_	_	480i	03	03	55	_
cHDB-5	_	_	480p	03	00	55	_
cHDB-B	_	_	1080i/720p	03	02	55	_
HDBC-G	Y Horizontal DSB Coring	_	ANT/NTSC/480i	07	04	32/37/42	_

10. I²C Adjustment Code and Data (Continued)

HDBC-J	_	_	480p/1080i/720p	07	00	32/37/42	_
cHDBC-G	_	_	ANT/NTSC/480i	07	04	55	_
cHDBC-J	_	_	480p/1080i/720p	07	07	55	_
HE-G	Y Horizontal Enhance Gain	_	ANT/NTSC/480i	0F	0F	32/37/42	_
HE-5	_	_	480p	0F	0F	32/37/42	_
HE-B	_	_	1080i/720p	0F	0F	32/37/42	_
cHE-G	_	_	ANT/NTSC/480i	0F	0F	55	_
cHE-5	_	_	480p	0F	0F	55	_
cHE-B	_	_	1080i/720p	0F	0F	55	_
HNLP-G	Y Horizontal Nonlinear Peaking	_	ANT/NTSC/480i	3F	00	32/37/42	_
HNLP-J	_	_	480p/1080i/720p	3F	00	32/37/42	_
cHNLP-G	_	_	ANT/NTSC/480i	3F	00	55	_
cHNLP-J	_	_	480p/1080i/720p	3F	00	55	_
HECPO-G	Y Horizontal Enhance CLIP_OFF	_	ANT/NTSC/480i	01	00	32/37/42	_
HECPO-J	_	_	480p/1080i/720p	01	00	32/37/42	_
cHECP-G	_	_	ANT/NTSC/480i	01	00	55	_
cHECP-J	_	_	480p/1080i/720p	01	00	55	_
HECLP-3	Y Horizontal CLIP Offset Level	_	ANT/NTSC	0F	0F	32/37/42	_
HECLP-4	_	_	480i	0F	0F	32/37/42	_
HECLP-J	_	_	480p/1080i/720p	0F	08	32/37/42	_
cHECL-3	_	_	TV/ANT	0F	08	55	_
cHECL-4	_	_	480i	0F	0F	55	_
cHECL-J	_	_	480p/1080i/720p	0F	08	55	_
CHPF-G	C Horizontal HPF Peak-Frequency	_	TV/NTSC/480i	03	02	_	_
CHPF-J	_	_	480p1080i/720p	03	02	_	_
CVHEG-1	C Vertical-Horizontal Enhance Gain	_	TV	1F	1F	_	_
CVHEG-2	_	_	NTSC	1F	10	_	_
CVHEG-4	_	_	480i	1F	10	_	_
CVHEG-5	_	_	480p	1F	08	_	_
CVHEG-B	_	_	1080i/720p	1F	06	_	_
CVE-G	C Vertical Enhance Gain	_	TV/NTSC/480i	0F	0F	_	_
CVE-J	_	_	480p1080i/720p	0F	09	_	_
CHE-G	C Horizontal Enhance Gain	_	TV/NTSC/480i	0F	0F	_	_
CHE-J	_	_	480p1080i/720p	0F	09	_	_
PDPM-0	Prevention of Image Retention,Moving Value	0:1pixel/1:2pixel/2_3pixel	ALL	02	00	_	_
PDPMM-0	Prevention of Image Retention,Mode	0:_/1:_/2:__/3:_	ALL	03	00	_	_
PDPM-TM	Prevention of Image Retention,Operation Time	0:MainLoop, 1-60s, 61:1m_120:1h	ALL	78	41	_	_
MYNRG-1	MAIN YNR_INPUT_LEVEL	_	TV	07	01	32/37/42	_
MYNRG-2	_	_	NTSC	07	01	32/37/42	_
MYNRG-4	_	_	480i	07	01	32/37/42	_
MYNRG-B	_	_	1080i/720p	07	01	32/37/42	_
MYNRG-5	_	_	480p	07	01	32/37/42	_
MYNRG-Q	_	_	480i/480p_HDMI_	07	01	32/37/42	_
MYNRG-U	_	_	1080i/720p_HDMI_	07	01	32/37/42	_
cMYNR-1	_	_	TV	07	01	55	_
cMYNR-2	_	_	NTSC	07	01	55	_
cMYNR-4	_	_	480i	07	04	55	_
cMYNR-B	_	_	1080i/720p	07	01	55	_
cMYNR-5	_	_	480p	07	01	55	_
cMYNR-Q	_	_	480i/480p/VGA_HDMI_	07	01	55	_
cMYNR-U	_	_	1080i/720p_HDMI_	07	01	55	_
MCNRG-1	CNR_INPUT_LEVEL	_	TV	07	04	32/37/42	_
MCNRG-2	_	_	NTSC	07	04	32/37/42	_
MCNRG-4	_	_	480i	07	01	32/37/42	_
MCNRG-B	_	_	1080i/720p	07	01	32/37/42	_
MCNRG-5	_	_	480p	07	01	32/37/42	_
MCNRG-Q	_	_	480i/480p/VGA_HDMI_	07	01	32/37/42	_
MCNRG-U	_	_	1080i/720p_HDMI_	07	01	32/37/42	_
cMCNR-1	_	_	TV	07	04	55	_
cMCNR-2	_	_	NTSC	07	04	55	_
cMCNR-4	_	_	480i	07	01	55	_
cMCNR-B	_	_	1080i/720p	07	01	55	_
cMCNR-5	_	_	480p	07	01	55	_
cMCNR-Q	_	_	480i/480p/VGA_HDMI_	07	01	55	_
cMCNR-U	_	_	1080i/720p_HDMI_	07	01	55	_
RYCLPH	R-Y_offset	_	Color Temp High	FF	80	32/37/42	_
BYCLPH	B-Y_offset	_	_	FF	80	32/37/42	_
RYCLPM	R-Y_offset	_	Color Temp Midium	FF	80	32/37/42	_
BYCLPM	B-Y_offset	_	_	FF	80	32/37/42	_
RYCLPS	R-Y_offset	_	Color Temp Standard	FF	80	32/37/42	_
BYCLPS	B-Y_offset	_	_	FF	80	32/37/42	_

10. I²C Adjustment Code and Data (Continued)

RYCLPC	R-Y_offset	_	Color Temp B/W	FF	80	32/37/42	_
BYCLPC	B-Y_offset	_	_	FF	80	32/37/42	_
cRYCLPH	R-Y_offset	_	color temp High	FF	80	55	_
cBYCLPH	B-Y_offset	_	_	FF	80	55	_
cRYCLPM	R-Y_offset	_	Color Temp Midium	FF	80	55	_
cBYCLPM	B-Y_offset	_	_	FF	80	55	_
cRYCLPS	R-Y_offset	_	Color Temp Standard	FF	80	55	_
cBYCLPS	B-Y_offset	_	_	FF	80	55	_
cRYCLPC	R-Y_offset	_	Color Temp B/W	FF	80	55	_
cBYCLPC	B-Y_offset	_	_	FF	80	55	_
CCORG	C Coring AMP.	_	TV/NTSC/480i	07	01	=	_
CCORJ	_	_	480p/1080i/720p	07	01	=	_
YCOR1	Y Coring AMP.	_	__	07	07	32/37/42	_
YCOR1NR	_	_	__-NR	07	07	32/37/42	_
YCOR2	_	_	NTSC(Composite)	07	03	32/37/42	_
YCORDNR	_	_	NTSC/480i-NR	07	07	32/37/42	_
YCOR4	_	_	480i	07	03	32/37/42	_
YCOR5	_	_	480P	07	02	32/37/42	_
YCORB	_	_	1080i/720p	07	04	32/37/42	_
YCORJNR	_	_	480p/1080i/720p-NR	07	07	32/37/42	_
YCOR-2Y	_	_	NTSC(Y/C)	07	04	32/37/42	_
cYCOR1	_	_	__	07	04	55	_
cYCO1NR	_	_	__-NR	07	07	55	_
cYCOR2	_	_	NTSC(Composite)	07	03	55	_
cYCODNR	_	_	NTSC/480i-NR	07	07	55	_
cYCOR4	_	_	480i	07	04	55	_
cYCOR5	_	_	480P	07	02	55	_
cYCORB	_	_	1080i/720p	07	04	55	_
cYCOJNR	_	_	480p/1080i/720p-NR	07	07	55	_
cYCO-2Y	_	_	NTSC(Y/C)	07	04	55	_
MSYNRP1	Main/Sub YFRNR Passage Level	_	TV	03	00	_	_
MSYP1NR	_	_	__-NR	03	01	_	_
MSYNRP2	_	_	NTSC	03	00	_	_
MSYNRP4	_	_	480i	03	00	_	_
MSYNRP5	_	_	480P	03	00	_	_
MSYNRPF	_	_	1080i/720p	03	00	_	_
MSCNRP1	Main/Sub CFRNR Passage Level	_	TV	03	02	_	_
MSCP1NR	_	_	__-NR	03	02	_	_
MSCNRP2	_	_	NTSC	03	02	_	_
MSCNRP4	_	_	480i	03	02	_	_
MSCNRP5	_	_	480P	03	02	_	_
MSCNRPF	_	_	1080i/720p	03	00	_	_
MYNRG8G	Main YFRNR Input Level Gain PinP	HD-NTSC:Sub	except HD-HD	07	01	_	_
MYNRG8J	_	_	HD-HD	07	04	_	_
MYNRGWG	Main YFRNR Input Level Gain Surf 3	_	NT-NT(/NT-HD)	07	01	_	_
MYNRGWJ	_	_	HD-HD(/HD-NT)	07	04	_	_
SYNRG8	Sub YFRNR Input Level Gain Split	_	Split	07	04	_	_
SYNRGXG	Sub YFRNR Input Level Gain Surf 3/12	_	NT-NT(/NT-HD)	07	01	_	_
SYNRGXJ	_	_	HD-HD(/HD-NT)	07	04	_	_
MCNRG8G	Main CFRNR Input Level Gain Split	HD-NTSC:Sub	except HD-HD	07	03	_	_
MCNRG8J	_	_	HD-HD	07	03	_	_
MCNRGWG	Main CFRNR Input Level Gain Surf 3	_	NT-NT(/NT-HD)	07	03	_	_
MCNRGWJ	_	_	HD-HD(/HD-NT)	07	03	_	_
SCNRG8	Sub CFRNR Input Level Gain Split	_	Split	07	03	_	_
SCNRGXG	Sub CFRNR Input Level Gain Surf 3/12	_	NT-NT(/NT-HD)	07	03	_	_
SCNRGXJ	_	_	HD-HD(/HD-NT)	07	03	_	_
YHHPFG	Y/G Horizontal HPF Peak-Frequency Select	_	TV/NTSC/PinP	03	02	32/37/42	_
YHHPF4	_	_	480i	03	02	32/37/42	_
YHHPF5	_	_	480p	03	02	32/37/42	_
YHHPFB	_	_	1080i/720p	03	02	32/37/42	_
cYHHPFG	_	_	TV/NTSC/PinP	03	02	55	_
cYHHPF4	_	_	480i	03	02	55	_
cYHHPF5	_	_	480p	03	02	55	_
cYHHPFB	_	_	1080i/720p	03	02	55	_
FC4 ORG	_	_	To FC_ original menu	-	-	-	_
PDP	_	_	_	_	_	_	_
GAMMA-N	_ Select	_ Select0:1.0,1:2.2,2:2.8_	except PC	02	01	32	_
aGAMMAN	_	_	_	02	01	37-42	_
cGAMMAN	_	_	_	02	01	55	_
GAMMA-P	_	_	PC	02	01	_	_

10. I²C Adjustment Code and Data (Continued)

BURN-IN	Burn in mode	00:Burn in, 01:Power Save, 02:Burn in 8 color Bar, 03:Burn in-White This spec is due to pannelcommunication spec.	ALL	03	01	=	_
APC	APC Switch	00:High-APC,01:Normal-APC	ALL	01	00	32	_
aAPC	_	_	_	01	00	37-42	_
cAPC	_	_	_	01	00	55	_
BRTM	Brightness_Mode_Brightness Max Limit_	00:100%,01:63%	ALL	01	00	VGAonly	_
PDP-VER	PDP MICOM VER. No.	_	ALL	-	-	_	_
PDP-TM	PDP Panel Drive Time	_	ALL	-	-	except VGA	_
CCFMD-N	Brightness/Gradation Priority Switch	00:Brightness,01:Gradation	TV/NTSC/480i/480p/1080i/720p	01	00	except VGA	_
CCFMD-P	_	_	PC	01	00	except VGA	_
CCFOR-T	NTSC/EBU	00:NTSC,01:EBU	TV/NTSC/480i/480p	01	00	except VGA	_
CCFOR-B	_	_	1080i/720p	01	00	except VGA	_
CCFOR-P	_	_	PC	01	00	except VGA	_
DCBH-N	Tracking Correction(Color Temp.:High)	00:Off,01:On	_	01	00	32	_
aDCBHN	_	_	_	01	00	37-42	_
bDCBHN	_	_	_	01	00	50	_
cDCBHN	_	_	_	01	00	55	_
DCBM-N	Tracking Correction(Color Temp.:Except High)	_	TV/NTSC/480i/480p/1080i/720p	01	01	except VGA	_
DCBH-P	_	_	PC	01	01	except VGA	_
HAPC	Heat APC Selection	00:Off,01:On	ALL	01	01	except VGA	_
ISM	Image Sticking Minimization	00:Off,01:On	ALL	01	01	VGA	_
WBC	White Balance Correction	00:Off,01:Low	ALL	03	02	32	_
aWBC	_	02:Medium,03:High	_	03	02	37-42	_
cWBC	_	_	_	03	02	55	_
QMODEN	Q.MODE (New Moving Processing)	00:Normal_Still_	TV/NTSC/480i/480p/1080i/720p	02	01	32	_
aQMODEN	_	01:Mode_	_	02	01	37-42	_
cQMODEN	_	02:Mode____inch Only_	_	02	01	55	_
QMN-NI	_	_	TV/NTSC/480i/480p/1080i/720p Night mode	02	01	32	_
aQMN-NI	_	_	_	02	01	37-42	_
cQMN-NI	_	_	_	02	01	55	_
QMODEP	_	_	PC(70HZ)	02	00	except VGA	_
BRLL	Brightness limitted function of panel	00:OFF,01:ON	ALL	01	01	32	_
aBRLL	(APSON)	_	_	01	01	37-42	_
bBRLL	_	_	_	01	01	50	_
cBRLL	_	_	_	01	01	55	_
VVWtime	VsVa wait timer	wait time_200msXData	ALL	0F	05	32	_
aVWtime	_	_	_	0F	05	37-42	_
bVWtime	_	_	_	0F	05	50	_
cVWtime	_	_	_	0F	05	55	_
c24DSTD	2/4 dispersion	_	Day	01	00	55	_
c24DSTN	_Improvement of smear for 55")	_	Night_	01	01	55	_
c24DSTP	_	_	PC	01	01	55	_
TEMP	_	_	_	_	_	_	_
FANTEPH	Temperature of FAN Stop	Temp_High	ALL	FF	3A	_	_
FANTEPL	_	Temp_Low	ALL	FF	37	_	_
PDPTEP	Internal Temperature	_	ALL	-	-	_	_
UPD64084	_	_	_	_	_	_	_
NOISE	Noise Level Detection	00:Noise Small_FF:Noise Large	_	-	-	_	_
VID-ID	Video ID Detection	0: 4x3 or no information, 1:16x9 screen, 2: 4x3 letter box	_ -		-	_	_
DYCO	Y Motion Detection Coring	00:Moving,FF:Still	_	0F	04	_	_
DYGA	Y Motion Detection Gain	0: Gain 0___F: Gain MAX	TV/NTSC	0F	09	_	_
DCCO	C Motion Detection Coring	0: Gain 0___F: Gain MAX	_	0F	03	_	_
DCGA	Chroma Motion Detection Gain	0: Gain 0___F: Gain MAX	_	0F	06	_	_
YPFG	Peaking Filter Gain	_	_	0F	08	32/37/42	_
cYPFG	_	_	_	0F	08	55	_
VAPGA	Vertical Aperture Control Gain	0:Correction OFF	_	07	00	32/37/42	_
cVAPGA	(Except Night _Night=0)	_7:Correction MAX (x0.875)	_	07	00	55	_
VAPIN	Vertical Aperture Control Invert	0:Correction OFF	_	1F	1F	32/37/42	_
cVAPIN	_Except Night_	_1F:Correction MAX (x0.875)	_	1F	1F	55	_
YHC1	Y High-Pass Coring Setting	00:Coring off	TV	03	00	32/37/42	_
YHC1-NR	_	01:Coring Low	TV-NR	03	02	32/37/42	_
YHC2	_	02:Coring Medium	NTSC	03	00	32/37/42	_
YHC2-NR	_	03:Coring High	NTSC-NR	03	02	32/37/42	_
cYHC1	_	_	TV	03	00	55	_

10. I²C Adjustment Code and Data (Continued)

cYH1-NR	_	_	TV-NR	03	02	55	_
cYHC2	_	_	NTSC	03	00	55	_
cYH2-NR	_	_	NTSC-NR	03	02	55	_
YHCOR	Y High-Pass Coring Gain Setting	00:Normal_01:Gain 1/2	TV/NTSC	01	00	_	_
TA1383	_	_	_	_	_	_	_
HSYNC-M	H frequency DET	00: no sync, FF : 106kHz over	_	FF	-	_	_
VSYNC-M	V frequency DET	00: no sync, FF : 16.5Hz near	_	7F	-	_	_
CSYNC-M	Sync DET	0:2-level sync. 1:3-level sync.	_	01	-	_	_
HSYNC-S	H frequency DET	00: no sync, FF : 106kHz over	_	FF	-	_	_
VSYNC-S	V frequency DET	00: no sync, FF : 16.5Hz near	_	7F	-	_	_
CSYNC-S	Sync DET	0:2-level sync. 1:3-level sync.	_	01	-	_	_
M-CONT3	Sub Contrast Control	00: -3dB_ 1F:+3dB	Main TV/NTSC	1F	0F	_	_
M-CONT4	_	_	Main 480i	1F	14	_	_
M-CONT5	_	_	Main 480p	1F	12	_	_
M-CONTF	_	_	Main 720p/1080i	1F	13	_	_
M-CONTQ	_	_	Main 480i/480p(HDMI)	1F	15	_	_
M-CONTU	_	_	Main 720p/1080i(HDMI)	1F	15	_	_
M-CONTR	_	_	Main VGA(HDMI)	1F	15	_	_
MTOFF1	Chrome filter frequency Control	00:OFF,01:MIN(0.8fsc)	Main TV	07	00	_	_
MTOFF2	_	,07:MAX(1.5fsc)	Main NTSC	07	00	_	_
MTOFQ1	Chrome filter characteristic Control	00:OFF, 01:MIN(0.6), 07:MAX(1.2)	Main TV	07	00	_	_
MTOFQ2	_	_	Main NTSC	07	00	_	_
S-CONT3	Sub Contrast Control	00: -3dB_ 1F:+3dB	Sub TV/NTSC	1F	0F	_	_
S-CONT4	_	_	Sub 480i	1F	1A	_	_
S-CONT5	_	_	Sub 480p	1F	18	_	_
S-CONTF	_	_	Sub 720p/1080i	1F	19	_	_
S-CONTQ	_	_	Sub 480i/480p(HDMI)	1F	1B	_	_
S-CONTU	_	_	Sub 720p/1080i(HDMI)	1F	1B	_	_
S-CONTR	_	_	Sub VGA(HDMI)	1F	1A	_	_
STOFF1	Chrome filter frequency Control	00:OFF,01:MIN(0.8fsc)	Sub TV	07	00	_	_
STOFF2	_	,07:MAX(1.5fsc)	Sub NTSC	07	00	_	_
STOFQ1	Chrome filter characteristic Control	00:OFF, 01:MIN(0.6), 07:MAX(1.2)	Sub TV	07	00	_	_
STOFQ2	_	_	Sub NTSC	07	00	_	_
Y-DL1-1	Y Delay time(Base band)	00:-10n,01:0n,10:-10n,11:+20n	Main/Sub TV	03	01	_	_
Y-DL1-2	_	_	Main/Sub NTSC	03	01	_	_
Y-DL1-D	_	_	Main/Sub 480i/480p/720p/1080i	03	01	_	_
Y-DL2-1	Y Delay time(NTSC)	00:OFF,01:+40n,10:+80n,11:+120n	Main/Sub TV	03	00	_	_
Y-DL2-2	_	_	Main/Sub NTSC	03	00	_	_
AFCRAN3	AFC pull in set	00:Normal_01:Narrow	Main/Sub TV/NTSC	01	00	_	_
AFCRAND	_	_	Main/Sub 480i/480p/720p/1080i	01	00	_	_
F-DET-3	Frequency Detection Input Switch	00:525I1,01:525I2,02:D-SUNC2,	Main/Sub TV/NTSC	03	00	_	_
F-DET-D	_	03:HD/VD	Main/Sub 480i/480p/720p/1080i	03	02	_	_
HSEPL-3	H sync sep level	00:20(25)% - 03 : 40(50,55)%	Main/Sub TV/NTSC	03	00	_	_
HSEPL-4	_	_	Main/Sub 480i	03	00	_	_
HSEPL-J	_	_	Main/Sub 480p/720p/1080i	03	00	_	_
VSEPL-3	V sync sep level	00:20(25,40)% - 03 : 50(55,70)%	Main/Sub TV/NTSC	03	00	_	_
VSEPL-4	_	_	Main/Sub 480i	03	00	_	_
VSEPL-J	_	_	Main/Sub 480p/720p/1080i	03	00	_	_
DSEPL-E	V sync sep level(D INPUT)	00:30%,01:40%,02:50%,03:60%	Main/Sub 480i/480p	03	00	_	_
DSEPL-F	_	_	Main/Sub 720p/1080i	03	00	_	_
AFCMD-1	AFC Mode	00-03:AUTO1-4, 04:+6dB,	Main/Sub TV	07	06	_	_
AFCMD-2	_	05:0dB, 06:-12dB	Main/Sub NTSC	07	02	_	_
AFCMD-D	_	07:Horizontal Free Run	Main/Sub 480i/480p/720p/1080i	07	02	_	_
VMODE-3	V Mode	00:Normal PLL,01:Sync Output	Main/Sub TV/NTSC	01	00	_	_
VMODE-4	_	_	Main/Sub 480i	01	00	_	_
48ISEP3	480i Sep Mode	00:ON,01:OFF	Main/Sub TV/NTSC	01	00	_	_
BW-G	Bandwidth	00:Through	Main/Sub TV/NTSC/480i	03	02	32/37/42	_
BWG-NR	_	01:4.2MHz filter	Main/Sub TV/NTSC/480i -NR	03	01	32/37/42	_
BW-J	_	02:11.3MHz filter	Main/Sub ~~480p~~/1080i/720p	03	00	32/37/42	_
BWJ-NR	_	03:Video Mute	Main/Sub 480p/1080i/720p -NR	03	02	32/37/42	_
cBW-G	_	_	Main/Sub TV/NTSC/480i	03	02	55	_
cBWG-NR	_	_	Main/Sub TV/NTSC/480i -NR	03	01	55	_
cBW-J	_	_	Main/Sub 480p/1080i/720p	03	00	55	_
cBWJ-NR	_	_	Main/Sub 480p/1080i/720p -NR	03	02	55	_
BW-Y	_	_	Main/Sub 480p(ANALOG)	03	02	_	_
BW-Z	_	_	Main/Sub 480p(HDMI)	03	02	_	_
HDPOSI3	H POSITION	00:800ns Forward,OF:Center	Main/Sub TV/NTSC	0F	08	_	_
HDPOSI4	_	_	Main/Sub 480i	0F	09	_	_
HDPOSI5	_	_	Main/Sub 480p	0F	01	_	_
HDPOSI6	_	_	Main/Sub 720p	0F	00	_	_
HDPOSI7	_	_	Main/Sub 1080i	0F	00	_	_

10. I²C Adjustment Code and Data (Continued)

CLR3	Sub Color Control	00: -3dB_ 1F:+3dB	Main/Sub TV/NTSC	1F	12	_	_
CLRE	_	_	Main/Sub 480i/480p	1F	13	_	_
CLRF	_	_	Main/Sub 720p/1080i	1F	1B	_	_
STINT3	Sub Tint Control	00: -7deg_0F:+3dB	Main/Sub TV/NTSC	0F	0D	_	_
STINTE	_	_	Main/Sub 480i/480p	0F	0A	_	_
STINTF	_	_	Main/Sub 720p/1080i	0F	07	_	_
YBLK3	Y Black Level Control	00: -140mV_FF:+140mV	Main/Sub TV/NTSC	FF	A9	32/37/42	_
YBLK4	_	_	Main/Sub 480i	FF	A9	32/37/42	_
YBLK5	_	_	Main/Sub 480p	FF	00	32/37/42	_
YBLKB	_	_	Main/Sub 720p/1080i	FF	00	32/37/42	_
YBLKV	_	_	Main/Sub 480i/480p/720p/1081i(HDMI)	FF	A9	32/37/42	_
YBLKR	_	_	Main/Sub VGA (HDMI)	FF	A9	32/37/42	_
cYBLK3	_	_	Main/Sub TV/NTSC	FF	A9	55	_
cYBLK4	_	_	Main/Sub 480i	FF	A9	55	_
cYBLK5	_	_	Main/Sub 480p	FF	00	55	_
cYBLKB	_	_	Main/Sub 720p/1080i	FF	00	55	_
cYBLKV	_	_	Main/Sub 480i/480p/720p/1081i(HDMI)	FF	A9	55	_
cYBLKR	_	_	Main/Sub VGA (HDMI)	FF	A9	55	_
CB-BLK3	Cb Black Level Control	_	Main/Sub TV/NTSC	FF	80	32/37/42	_
CR-BLK3	Cr Black Level Control	_	Main/Sub TV/NTSC	FF	80	32/37/42	_
CB-BLKE	Cb Black Level Control	_	Main/Sub 480i/480p	FF	7F	32/37/42	_
CR-BLKE	Cr Black Level Control	_	Main/Sub 480i/480p	FF	7F	32/37/42	_
CB-BLKF	Cb Black Level Control	_	Main/Sub 720p/1080i	FF	7D	32/37/42	_
CR-BLKF	Cr Black Level Control	_	Main/Sub 720p/1080i	FF	7D	32/37/42	_
cCBBLK3	Cb Black Level Control	_	Main/Sub TV/NTSC	FF	80	55	_
cCRBLK3	Cr Black Level Control	_	Main/Sub TV/NTSC	FF	80	55	_
cCBBLKE	Cb Black Level Control	_	Main/Sub 480i/480p	FF	7F	55	_
cCRBLKE	Cr Black Level Control	_	Main/Sub 480i/480p	FF	7F	55	_
cCBBLKF	Cb Black Level Control	_	Main/Sub 720p/1080i	FF	00	55	_
cCRBLKF	Cr Black Level Control	_	Main/Sub 720p/1080i	FF	00	55	_
AN15865	_	_	_	_	_	_	_
AFCM	Main AFC-LOCK	0: unlocked, 1: locked	_	01	-	_	_
AFCS	Sub AFC-LOCK	_	_	01	-	_	_
SYSM	Main Out5 System Status	0: 480i_60, 1: 480p_60, 2:1080i_60, 3: 720p_60, 4: 576i_50, 5: 576p_50, 6:1080i_50, 7: 720p-50	_ 0	7	-	_	_
SYSS	Sub Out5 System Status	_	_	07	-	_	_
SYNCM	Main Sync Status	D7: Sync status (0: Binary sync, 1: Tri-level sync) D6: MACROVISIONdetection (0: normal, 1: macro vision) D5: Auto distinc. ResultCVST det (0: SY, 1: CY)	_ 3	F	-	_	_
SYNCS	Sub Sync Status	D4: Auto distinc. ResultSync fix (0: continue, 1: fix) D3: Australia interlace (0: expect, 1: Australia) D2:Australia format (0: normal, 1: letter)	_ 3	F	-	_	_
M-LPF1	LPF on/off	00:Through,1F:LPF ON	Main TV	01	00	_	_
S-LPF1	_	_	Sub TV	01	00	_	_
M-LPF2	_	_	Main NTSC	01	00	_	_
S-LPF2	_	_	Sub NTSC	01	00	_	_
M-LPF4	_	_	Main 480i	01	00	_	_
S-LPF4	_	_	Sub 480i	01	00	_	_
LPFY	LPF on/off	_	Main/Sub 480p(ANALOG)	01	00	_	_
LPFZ	_	_	Main/Sub 480p(HDMI)	01	00	_	_
AN-SW	Signal Line Switch(Study_	0:Normal(IN7),1:Study(IN5)	_	01	00	_	_
HDMI	_	_	_	_	_	_	_
SYNC1	VSYNC/Clock detect/Sync detect 1	_	_	07	-	_	_
NHRDL1	N hardware value 1 Low 7 bit	_	_	FF	-	_	_
NHRDM1	N hardware value 1 Mid 7 bit	_	_	FF	-	_	_
NHRDH1	N hardware value 1 High 4 bit	_	_	FF	-	_	_
CHRDL1	CTS hardware value 1 Low 7 bit	_	_	FF	-	_	_
CHRDM1	CTS hardware value 1 Mid 7 bit	_	_	FF	-	_	_
CHRDH1	CTS hardware value 1 High 4 bit	_	_	FF	-	_	_
ACR1	ACR PLL hardware value 1	_	_	FF	-		

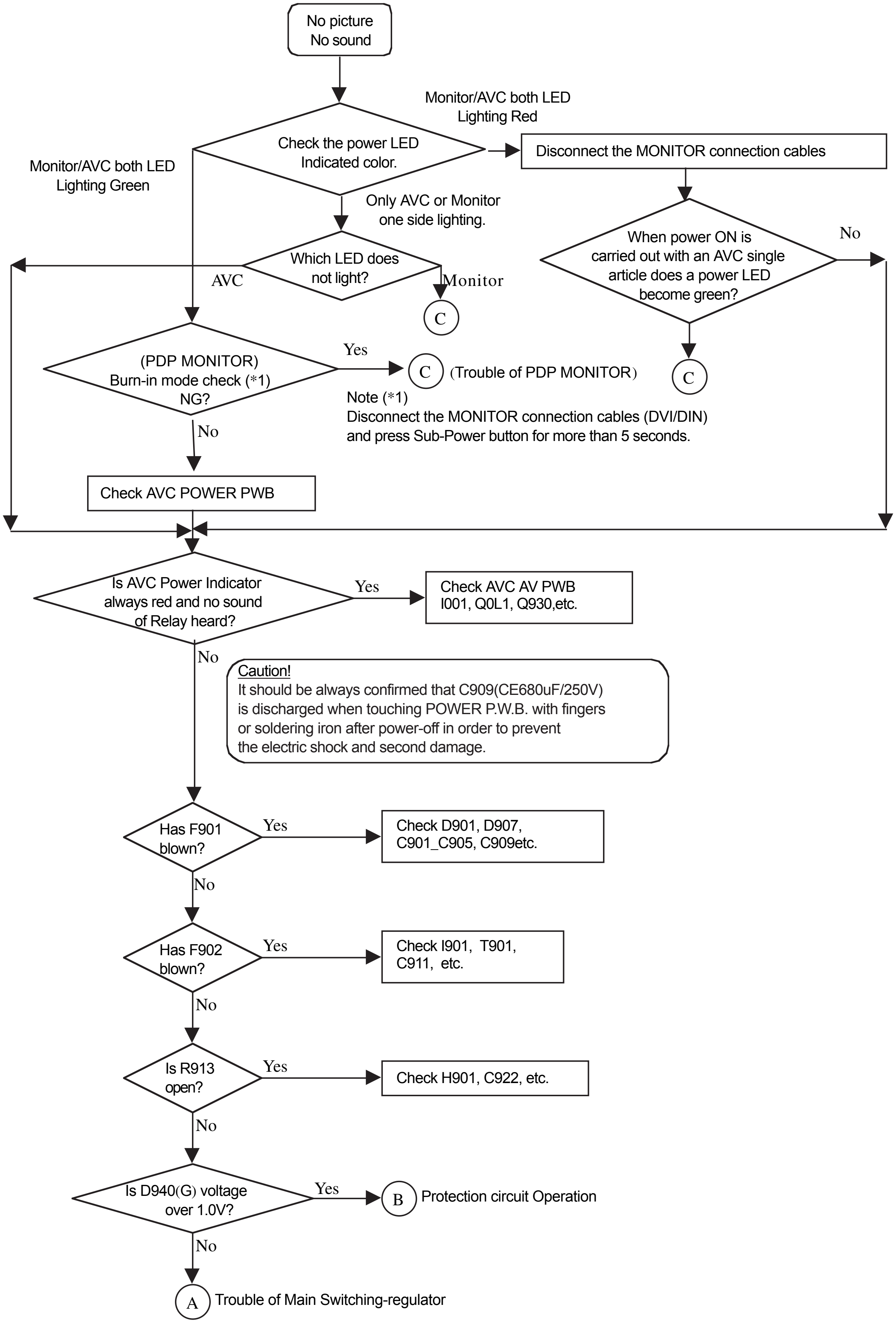
10. I^2C Adjustment Code and Data (Continued)

ACRS1	ACR PLL hardware value 1 (Refer to Source)	_	_	3F	-	_	_
SFREQ1	Extracted Sampling Frequency 1 channel status b24-27(same value at 0x30)	_ _		0F	-	_	_
CLKFRQ1	Clock Accuracy/Sampling Frequency 1	_	_	FF	-	_	_
ALNG1	Audio length/Audio length max 1	_	_	FF	-	_	_
MT_MD1	AV mute/HDMI mode 1	_	_	FF	-	_	_
VTYP1	AVI infoframe type code 1_Request_	_	_	FF	-	_	_
VVER1	AVI infoframe version code 1_Request_	_	_	FF	-	_	_
VINFO11	AVI infoframe data 1	_	_	FF	-	_	_
VINFO21	_	_	_	FF	-	_	_
VINFO31	_	_	_	FF	-	_	_
VINFO41	_	_	_	FF	-	_	_
VINFO51	_	_	_	FF	-	_	_
ATYP1	AUDIO InfoFrame Type Code 1_Request_	_	_	FF	-	_	_
AVER1	AUDIO InfoFrame Version Code 1_Request_	_	_	FF	-	_	_
AINFO11	AUDIO InfoFrame Data Bytes 1	_	_	FF	-	_	_
AINFO21	_	_	_	FF	-	_	_
AINFO31	_	_	_	FF	-	_	_
AINFO41	_	_	_	FF	-	_	_
AINFO51	_	_	_	FF	-	_	_
SYNC2	VSYNC/Clock detect/Sync detect 2	_	_	07	-	_	_
NHRDL2	N hardware value 2 Low 7 bit	_	_	FF	-	_	_
NHRDM2	N hardware value 2 Mid 7 bit	_	_	FF	-	_	_
NHRDH2	N hardware value 2 High 4 bit	_	_	FF	-	_	_
CHRDL2	CTS hardware value 2 Low 7 bit	_	_	FF	-	_	_
CHRDM2	CTS hardware value 2 Mid 7 bit	_	_	FF	-	_	_
CHRDH2	CTS hardware value 2 High 4 bit	_	_	FF	-	_	_
ACR2	ACR PLL hardware value 2	_	_	FF	-	_	_
ACRS2	ACR PLL hardware value 2 (Refer to Source)	_	_	3F	-	_	_
SFREQ2	Extracted Sampling Frequency 2 channel status b24-27(same value at 0x30)	_ _		0F	-	_	_
CLKFRQ2	Clock Accuracy/Sampling Frequency 2	_	_	FF	-	_	_
ALNG2	Audio length/Audio length max 2	_	_	FF	-	_	_
MT_MD2	AV mute/HDMI mode 2	_	_	FF	-	_	_
VTYP2	AVI infoframe type code 2_Request_	_	_	FF	-	_	_
VVER2	AVI infoframe version code 2_Request_	_	_	FF	-	_	_
VINFO12	AVI infoframe data 2	_	_	FF	-	_	_
VINFO22	_	_	_	FF	-	_	_
VINFO32	_	_	_	FF	-	_	_
VINFO42	_	_	_	FF	-	_	_
VINFO52	_	_	_	FF	-	_	_
ATYP2	AUDIO InfoFrame Type Code 2_Request_	_	_	FF	-	_	_
AVER2	AUDIO InfoFrame Version Code 2_Request_	_	_	FF	-	_	_
AINFO12	AUDIO InfoFrame Data Bytes 2	_	_	FF	-	_	_
AINFO22	_	_	_	FF	-	_	_
AINFO32	_	_	_	FF	-	_	_
AINFO42	_	_	_	FF	-	_	_
AINFO52	_	_	_	FF	-	_	_
BPMA	Back Porch Mode,Field2	VCO Range Select: 00 = low range setting (default) 01 = mid-low range setting 10 = mid-high range setting 11 = high range setting	_ 0	1	01	_	_
VCORA	VCO range select	Charge Pump Current Select, when PLL_CGC[1]=0. 000 = 50µa 001 = 100µa (default) 010 = 150µa 011 = 250µa 100 = 350µa 101 = 500µa 110 = 750µa	_ 0	3	00	_	_
CRNTA	change pump current select	–	_ 0	7	00	_	–
TESTA	Matching Test to allow increment of stability counter.	1=Previous and most recent counts must match exactly. 0=Match determined by WINDIV value.	_ 0	1	01	_	–
PRMB	preamble criteria	_	_	1F	06	_	_

10. I²C Adjustment Code and Data (Continued)

HDCP	HDCP enable criteria	_	_	1F	0C	_	_
ETC	_	_	_	_	_	_	_
VPOSI	OSD Vertical Position	_	_	FF	07	_	_
HPOSI1	OSD Horizontal Position Adjust	Normal	_	FF	07	_	_
HPOSI2	OSD Horizontal Position Adjust	Mix with DM	_	FF	07	_	_
POWSAVE	PC Powersave(0:disable 1:Enable)	_	_	01	01	_	_
POWS-TM	PC/Video Powersave timer(s)	_	_	FE	0F	_	_
S.CSTEP	Sub Contrast Adj.step-Value	_	_	FE	06	_	_
S.C-UP	Sub Contrast Adj.Max-Value	_	_	FE	E6	_	_
S.C-LOW	Sub Contrast Adj.Min-Value	_	_	FE	E0	_	_
FANCONT	FAN	0: With 1: Nil	_	01	01	_	_
ID1-3D	Video ID Detection on UPD64084	0: 4x3 or no information 1: 16x9 screen 2: 4x3 letter box	_ -		-	_	_
ID1-CCD	Video ID Detection on CCD-MPU		_	-	-	_	_
CCD-HUD	CCD(HP)	Analog CCD for DTV	Digital	4F	03	_	_
CCD-CUD	(CLK)	_	_	4F	4D	_	_
PNL32	Panel Initial Select	1:Panel(No connect)=32inch	_	01	00	_	_
CLR-7d	color(Center Adjustment)	_	1080i(Digital)	7F	61	32/37/42	_
cCLR-7d	_	_	1080i(Digital)	7F	60	55	_
TINT-7d	Tint (Center Adjustment)	_	1080i(Digital)	FF	75	32/37/42	_
cTIN-7d	_	_	1080i(Digital)	FF	85	55	_
CLR7d	Sub Color Control	00: -3dB_ 1F:+3dB	1080i(Digital)	1F	1B	_	_
CLRQ	_	_	Main/Sub 480i/480p(HDMI)	1F	16	_	_
CLRU	_	_	Main/Sub 720p/1080i(HDMI)	1F	1D	_	_
CLRR	_	_	Main/Sub VGA(HDMI)	1F	16	_	_
STIN7d	Sub Tint Control	00: -7deg_0F:+3dB	1080i(Digital)	0F	07	_	_
STINTQ	_	_	Main/Sub 480i/480p(HDMI)	0F	0C	_	_
STINTU	_	_	Main/Sub 720p/1080i(HDMI)	0F	09	_	_
STINTR	_	_	Main/Sub VGA(HDMI)	0F	0C	_	_
BGMGAIN	BGM GAIN ON/OFF	1:ON 0:OFF	_	01	01	55	_
HD-CCD	HD CCD ON/OFF	1:1080i/720p-CCD MIX	_	01	00	_	_
IMGMID	Image Power Offset (Medium)	To Contrast data	_	44	32	_	_
IMGMIN	Image Power Offset (Min)	To Contrast data	_	44	44	_	_
FRUNPR	Free run priority	0:Fix 1:Auto	Main/Sub	01	00	_	_
DMY679	_	_	_	-	-	_	_
DMY680	_	_	_	-	-	_	_
DMY681	_	_	_	-	-	_	_
DMY682	_	_	_	-	-	_	_
DMY683	_	_	_	-	-	_	_
DMY684	_	_	_	-	-	_	_

11. TROUBLESHOOTING FLOWCHARTS

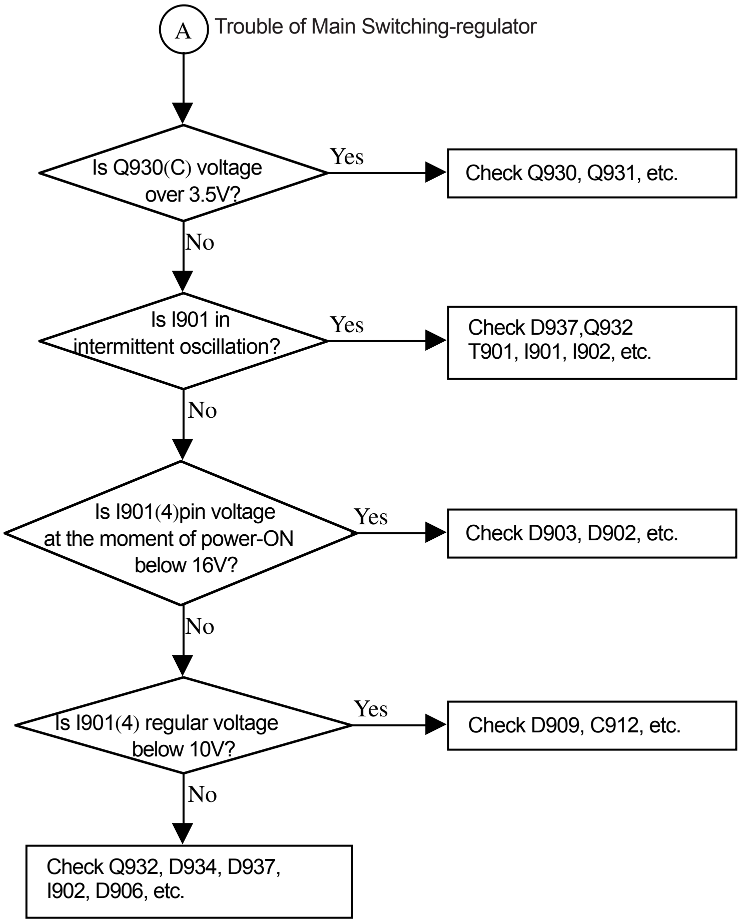

No picture
No sound
Check the power LED
Indicated color.
Monitor/AVC both LED
Lighting Red
Disconnect the MONITOR connection cables
Monitor/AVC both LED
Lighting Green
Only AVC or Monitor
one side lighting.
Which LED does
not light?
AVC
Monitor
C
When power ON is
carried out with an AVC single
article does a power LED
become green?
No
C
(PDP MONITOR)
Burn-in mode check (*1)
NG?
Yes
C
(Trouble of PDP MONITOR)
No
Check AVC POWER PWB
Is AVC Power Indicator
always red and no sound
of Relay heard?
Yes
Check AVC AV PWB
I001, Q0L1, Q930,etc.
No
Has F901
blown?
Yes
Check D901, D907,
C901_C905, C909etc.
No
Has F902
blown?
Yes
Check I901, T901,
C911, etc.
No
Is R913
open?
Yes
Check H901, C922, etc.
No
Is D940(G) voltage
over 1.0V?
Yes
B
Protection circuit Operation
No
A
Trouble of Main Switching-regulator

Note (*1)
Disconnect the MONITOR connection cables (DVI/DIN)
and press Sub-Power button for more than 5 seconds.

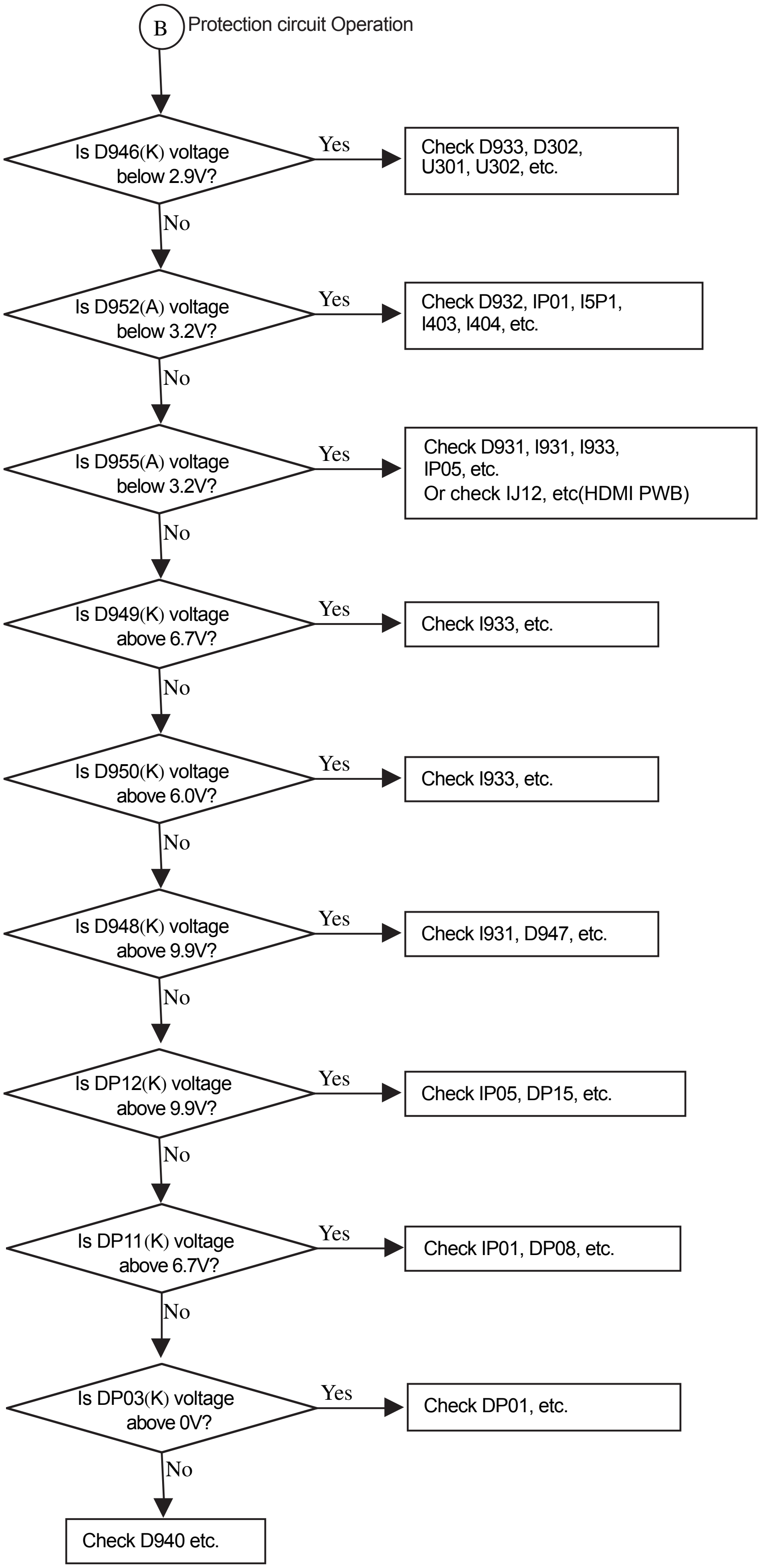
Caution!
It should be always confirmed that C909(CE680uF/250V)
is discharged when touching POWER P.W.B. with fingers
or soldering iron after power-off in order to prevent
the electric shock and second damage.

11. TROUBLESHOOTING FLOWCHARTS

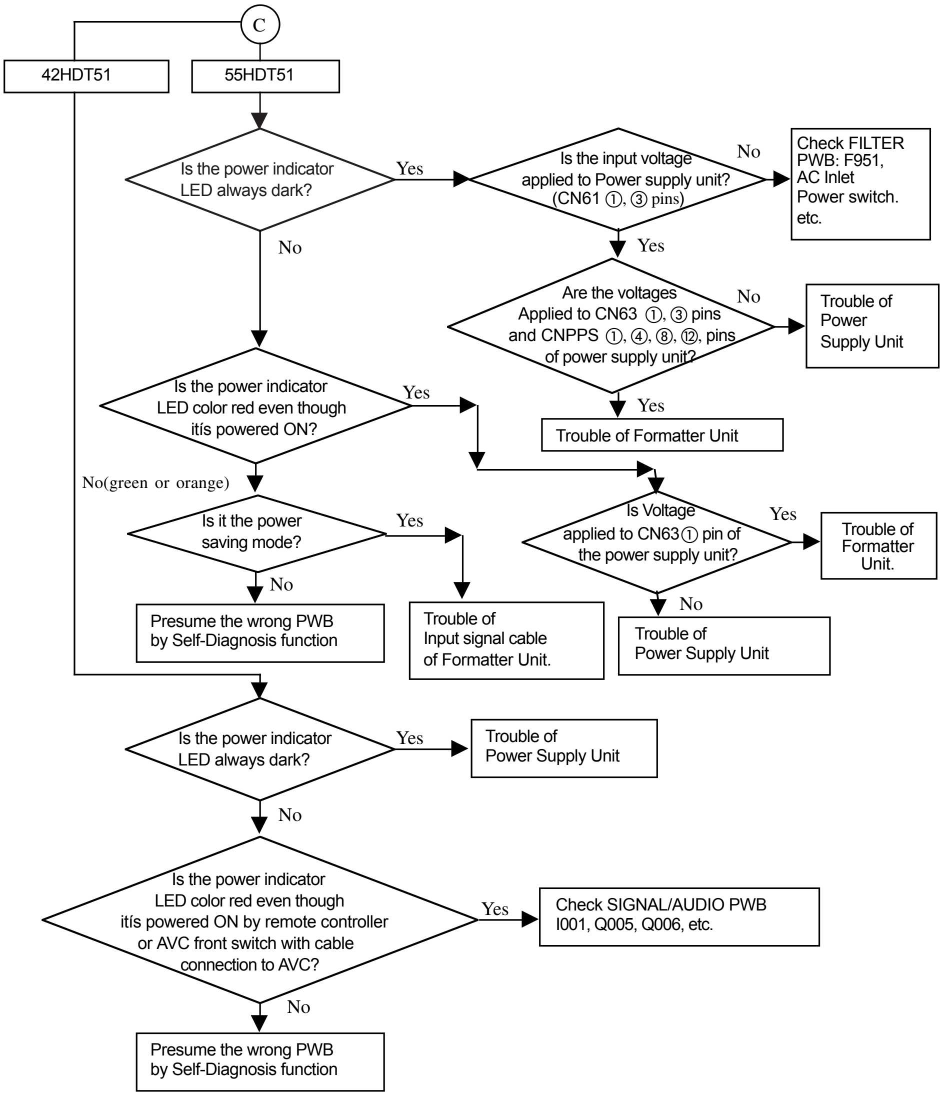
How to get to Burn-in mode for 55" Model.
Press Sub-Power button, input Select button
and hold for more than 5 seconds


A
Trouble of Main Switching-regulator
Is Q930(C) voltage over 3.5V?
Yes
Check Q930, Q931, etc.
No
Is I901 in intermittent oscillation?
Yes
Check D937,Q932 T901, I901, I902, etc.
No
Is I901(4)pin voltage at the moment of power-ON below 16V?
Yes
Check D903, D902, etc.
No
Is I901(4) regular voltage below 10V?
Yes
Check D909, C912, etc.
No
Check Q932, D934, D937, I902, D906, etc.

11. TROUBLESHOOTING FLOWCHARTS


B
Protection circuit Operation
Is D946(K) voltage below 2.9V?
Yes
Check D933, D302, U301, U302, etc.
No
Is D952(A) voltage below 3.2V?
Yes
Check D932, IP01, I5P1, I403, I404, etc.
No
Is D955(A) voltage below 3.2V?
Yes
Check D931, I931, I933, IP05, etc.
Or check IJ12, etc(HDMI PWB)
No
Is D949(K) voltage above 6.7V?
Yes
Check I933, etc.
No
Is D950(K) voltage above 6.0V?
Yes
Check I933, etc.
No
Is D948(K) voltage above 9.9V?
Yes
Check I931, D947, etc.
No
Is DP12(K) voltage above 9.9V?
Yes
Check IP05, DP15, etc.
No
Is DP11(K) voltage above 6.7V?
Yes
Check IP01, DP08, etc.
No
Is DP03(K) voltage above 0V?
Yes
Check DP01, etc.
No
Check D940 etc.

11. PDP TROUBLESHOOTING FLOWCHARTS


C
42HDT51
55HDT51
Is the power indicator LED always dark?
Yes
Is the input voltage applied to Power supply unit? (CN61 ①, ③ pins)
No
Check FILTER PWB: F951, AC Inlet Power switch. etc.
Yes
Are the voltages Applied to CN63 ①, ③ pins and CNPPS ①, ④, ⑧, ⑫, pins of power supply unit?
No
Trouble of Power Supply Unit
Yes
Trouble of Formatter Unit
No
Is the power indicator LED color red even though itís powered ON?
Yes
No(green or orange)
Is it the power saving mode?
Yes
No
Presume the wrong PWB by Self-Diagnosis function
Trouble of Input signal cable of Formatter Unit.
Is Voltage applied to CN63① pin of the power supply unit?
Yes
Trouble of Formatter Unit.
No
Trouble of Power Supply Unit
Is the power indicator LED always dark?
Yes
Trouble of Power Supply Unit
No
Is the power indicator LED color red even though itís powered ON by remote controller or AVC front switch with cable connection to AVC?
Yes
Check SIGNAL/AUDIO PWB I001, Q005, Q006, etc.
No
Presume the wrong PWB by Self-Diagnosis function

11. PDP TROUBLESHOOTING FLOWCHARTS

Self Diagnosis Function

·PDP Monitor [42HDT51,55HDT51]

Sub-Power button also activates Self Diagnosis mode for a PDP monitor failure with no picture.

To enter to Self Diagnosis mode, follow the next conditions and steps:

Conditions:

1) The connection cable between the Monitor and AVC (DVI and DIN) must be unplugged from the Monitor.
2) Make sure Power Cord of AC line is connected to the PDP Monitor.
3) The Main Power switch must be turned on.

Procedure:

42": 1) Press Sub-Power button for more than 5 seconds.
    2) It generates red blinking series of the power indicator light when PDP Monitor has some failure.
    3) If PDP Monitor has no failure, it enters Burn-in mode.
    4) Turning off the Main Power switch would cancel the Self Diagnosis mode.
    5) The next table shows the PDP PWB in which failure most probably would be allocated according to the number of blinks.

55": 1) Press Sub-Power button and ▼ button on the bottom of the monitor at the same time, and keep it for more than 5 seconds after the power turned on.
    2)It generates red blinking series of the power indicator light.
    3)Any operation would cancel the Self-Diagnosis mode.
    4)The next table shows the PDP PWB in which failure most probably would be allocated according to the number of blinks.

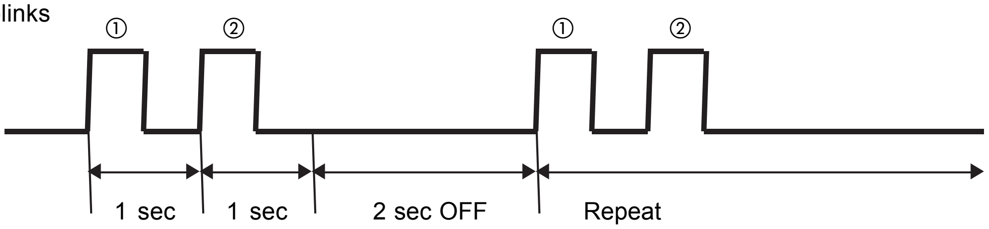
Number of red blinks of power indication light	Presumed failing PWB
1	Logic
2	X-SUS
3	Y-SUS
4	X-SUS, Y-SUS, SDM, PSU
5	ADM, PSU, ABUS
6	ADM
7	ADM
8	All PWBís

SDM: Scan Driver Module
PSU: Power Supply Unit
ADM: Address Driver Module

Note) SDM is permanently contacted to glass part.

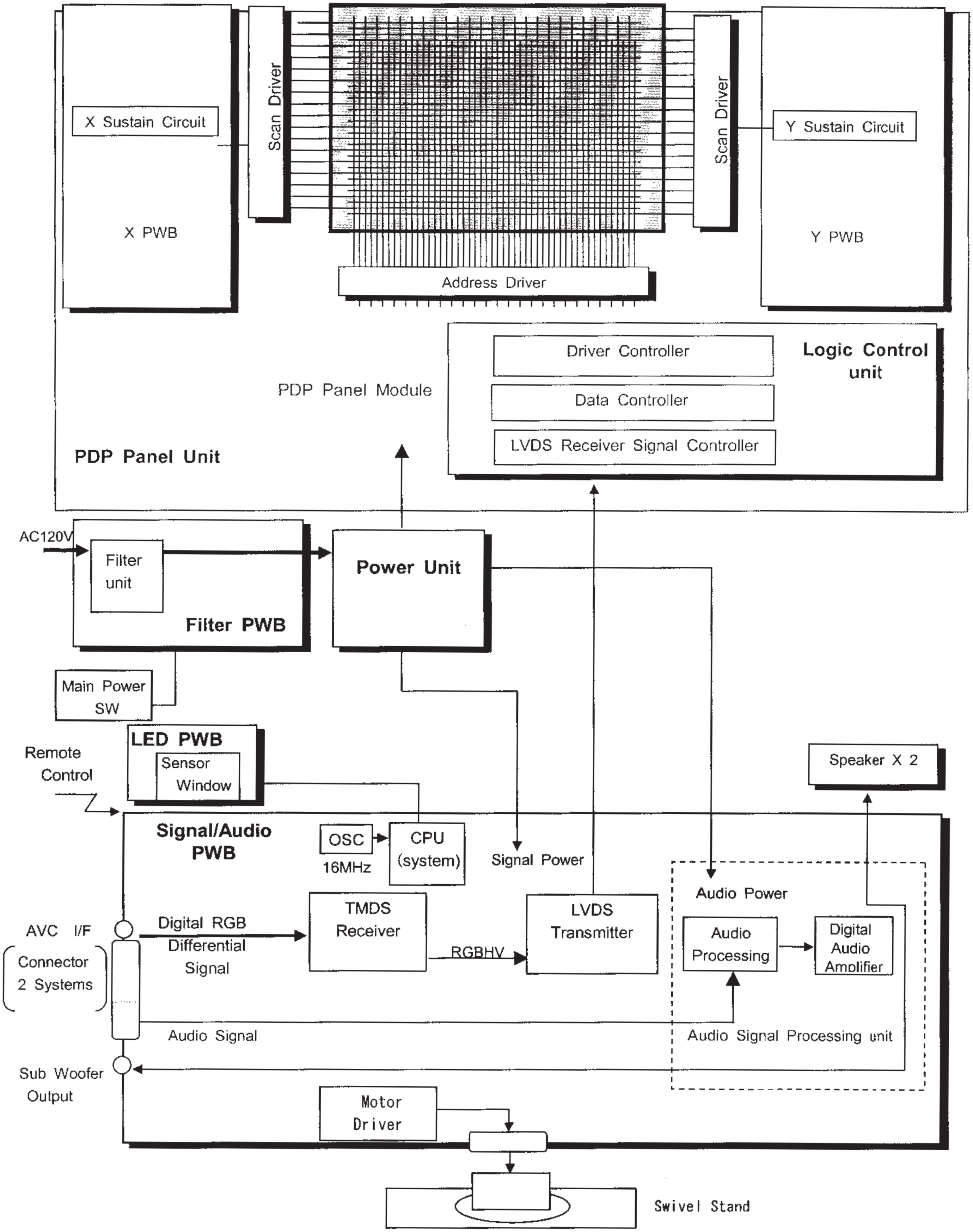
[Blinking condition of power indication light]

ex. 2 blinks

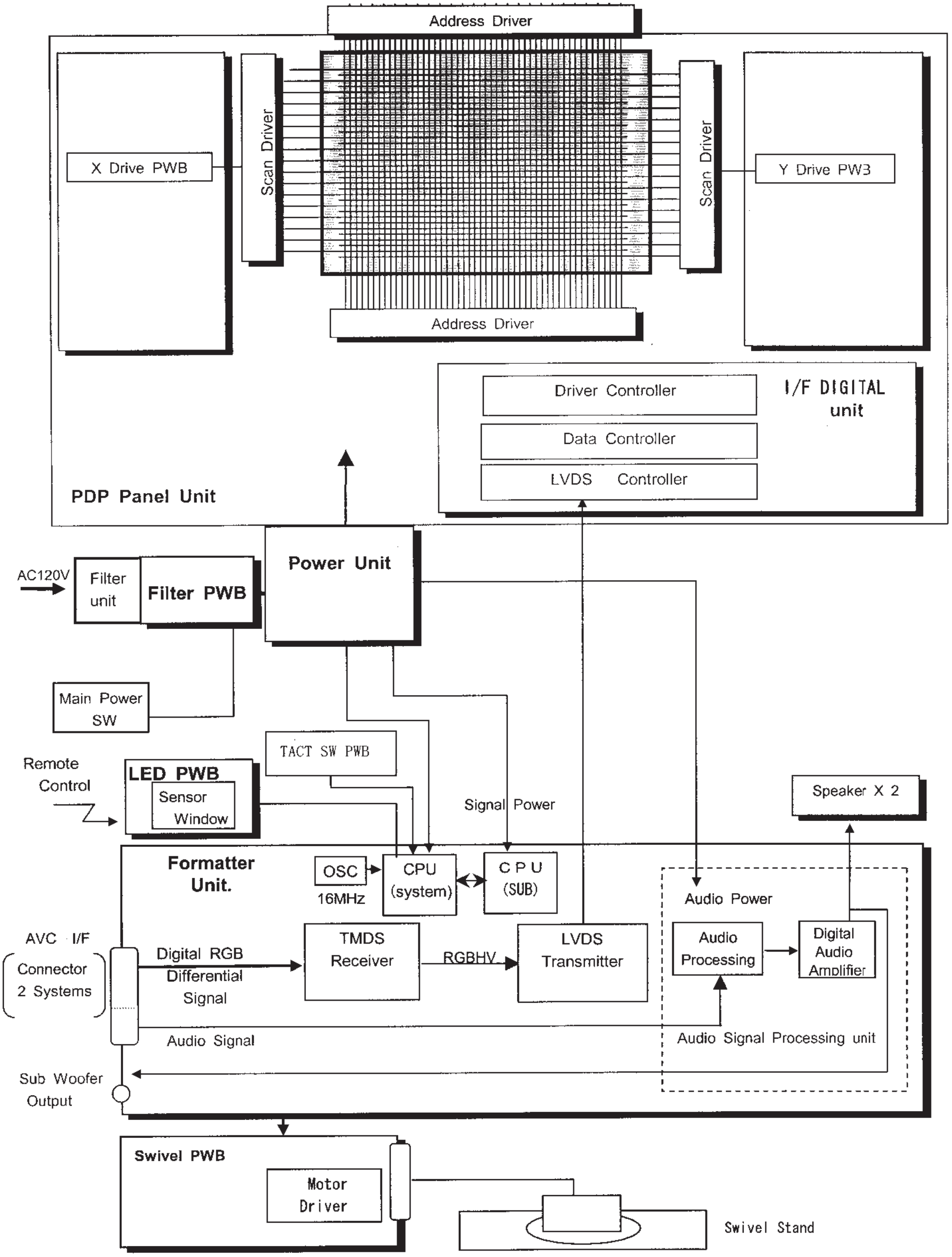


12. Circuit Block Diagram (MONITOR)

(1)Application MODELS: 42HDT51M

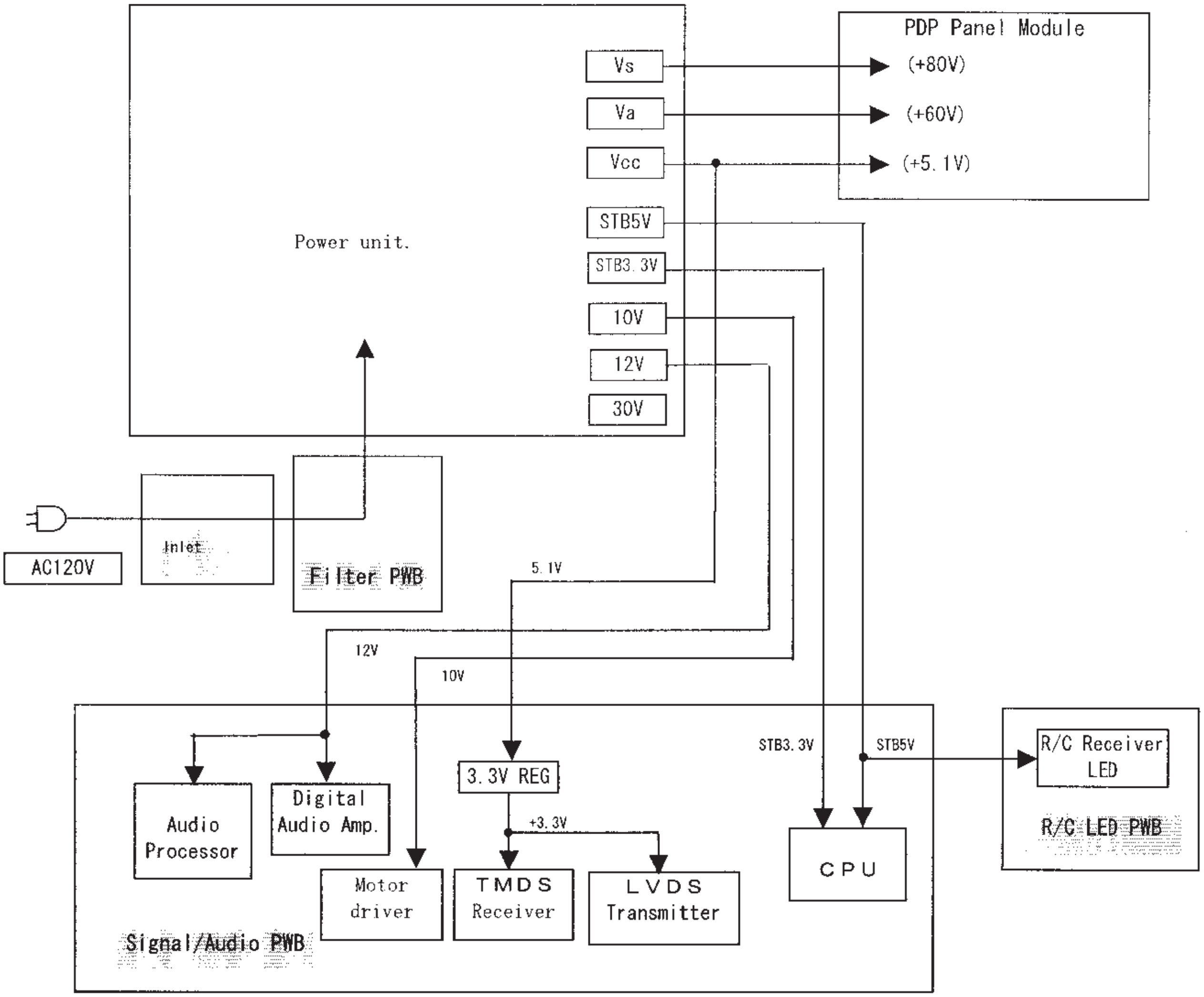

X Sustain Circuit
X PWB
Scan Driver
Scan Driver
Y Sustain Circuit
Y PWB
Address Driver
Driver Controller
Data Controller
LVDS Receiver Signal Controller
Logic Control unit
PDP Panel Module
PDP Panel Unit
AC120V
Filter unit
Filter PWB
Power Unit
Main Power SW
LED PWB
Sensor Window
Remote Control
Speaker X 2
Signal/Audio PWB
OSC
16MHz
CPU (system)
Signal Power
Audio Power
AVC I/F
Connector 2 Systems
Digital RGB Differential Signal
TMDS Receiver
RGBHV
LVDS Transmitter
Audio Processing
Digital Audio Amplifier
Audio Signal
Audio Signal Processing unit
Sub Woofer Output
Motor Driver
Swivel Stand

(2) Application MODELS: 55HDT51M **(MONITOR)**

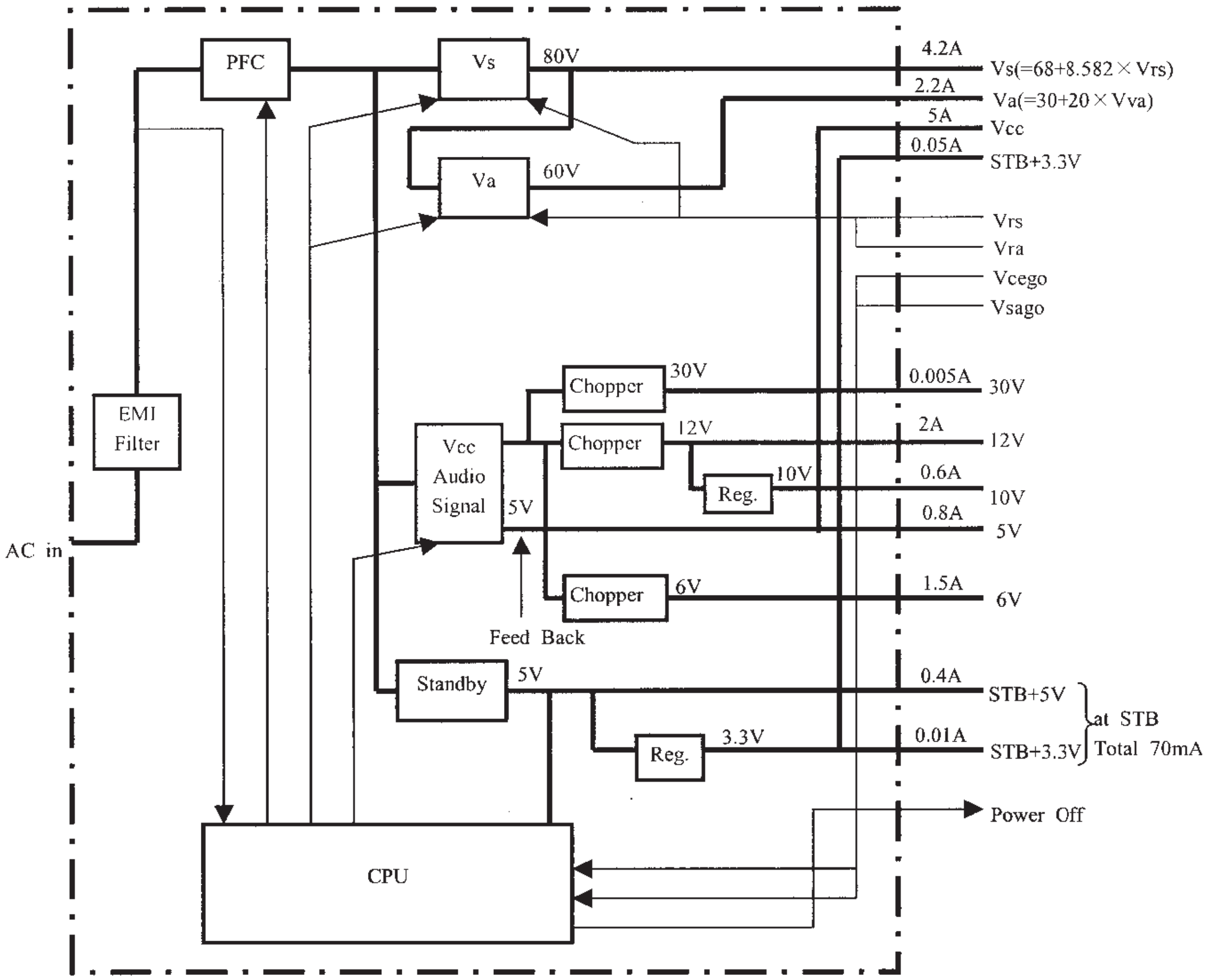

Address Driver
X Drive PWB
Scan Driver
Scan Driver
Y Drive PWB
Address Driver
Driver Controller
Data Controller
LVDS Controller
I/F DIGITAL unit
PDP Panel Unit
Power Unit
AC120V
Filter unit
Filter PWB
Main Power SW
TACT SW PWB
Remote Control
LED PWB
Sensor Window
Signal Power
Speaker X 2
Formatter Unit.
OSC
16MHz
CPU (system)
C P U (SUB)
Audio Power
AVC I/F
Connector 2 Systems
Digital RGB Differential Signal
TMDS Receiver
RGBHV
LVDS Transmitter
Audio Processing
Digital Audio Amplifier
Audio Signal
Audio Signal Processing unit
Sub Woofer Output
Swivel PWB
Motor Driver
Swivel Stand

12. Power Circuit Block Diagram (MONITOR)

Application MODELS: 42HDT51M

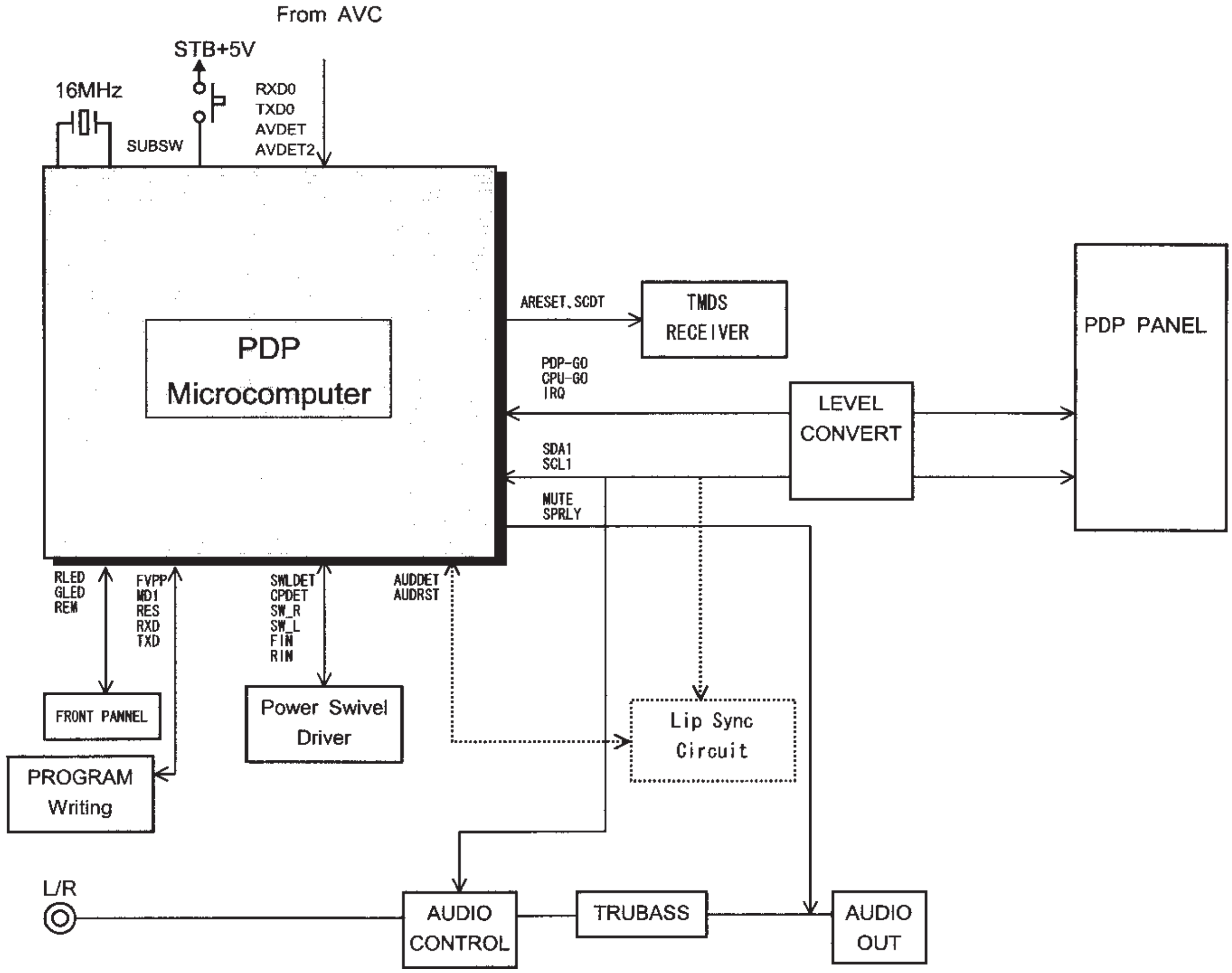

Power unit.
Vs
Va
Vcc
STB5V
STB3.3V
10V
12V
30V
PDP Panel Module
(+80V)
(+60V)
(+5.1V)
AC120V
Inlet
Filter PWB
5.1V
12V
10V
STB3.3V
STB5V
3.3V REG
+3.3V
Audio Processor
Digital Audio Amp.
Motor driver
TMDS Receiver
LVDS Transmitter
CPU
Signal/Audio PWB
R/C Receiver LED
R/C LED PWB

Application MODELS: 55HDT51M **(MONITOR)**

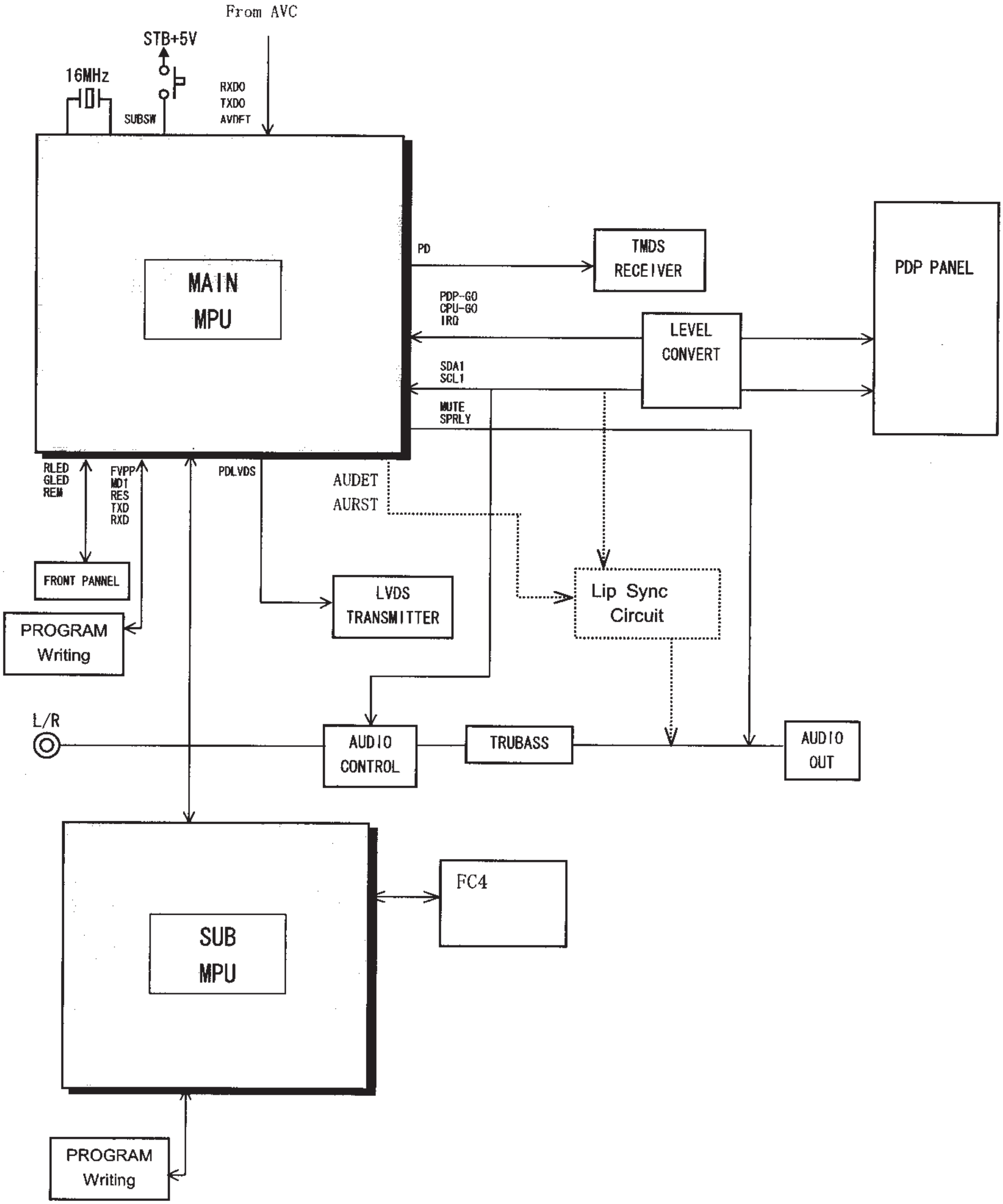

PFC
Vs
80V
Va
60V
EMI Filter
AC in
4.2A
Vs(=68+8.582×Vrs)
2.2A
Va(=30+20×Vva)
5A
Vcc
0.05A
STB+3.3V
Vrs
Vra
Vcego
Vsago
Chopper
30V
0.005A
30V
Chopper
12V
2A
12V
Vcc Audio Signal
5V
Reg.
10V
0.6A
10V
0.8A
5V
Chopper
6V
1.5A
6V
Feed Back
Standby
5V
0.4A
STB+5V
at STB Total 70mA
Reg.
3.3V
0.01A
STB+3.3V
Power Off
CPU

12.2 MPU Control Block Diagram (MONITOR)

(1) 42HDT51M

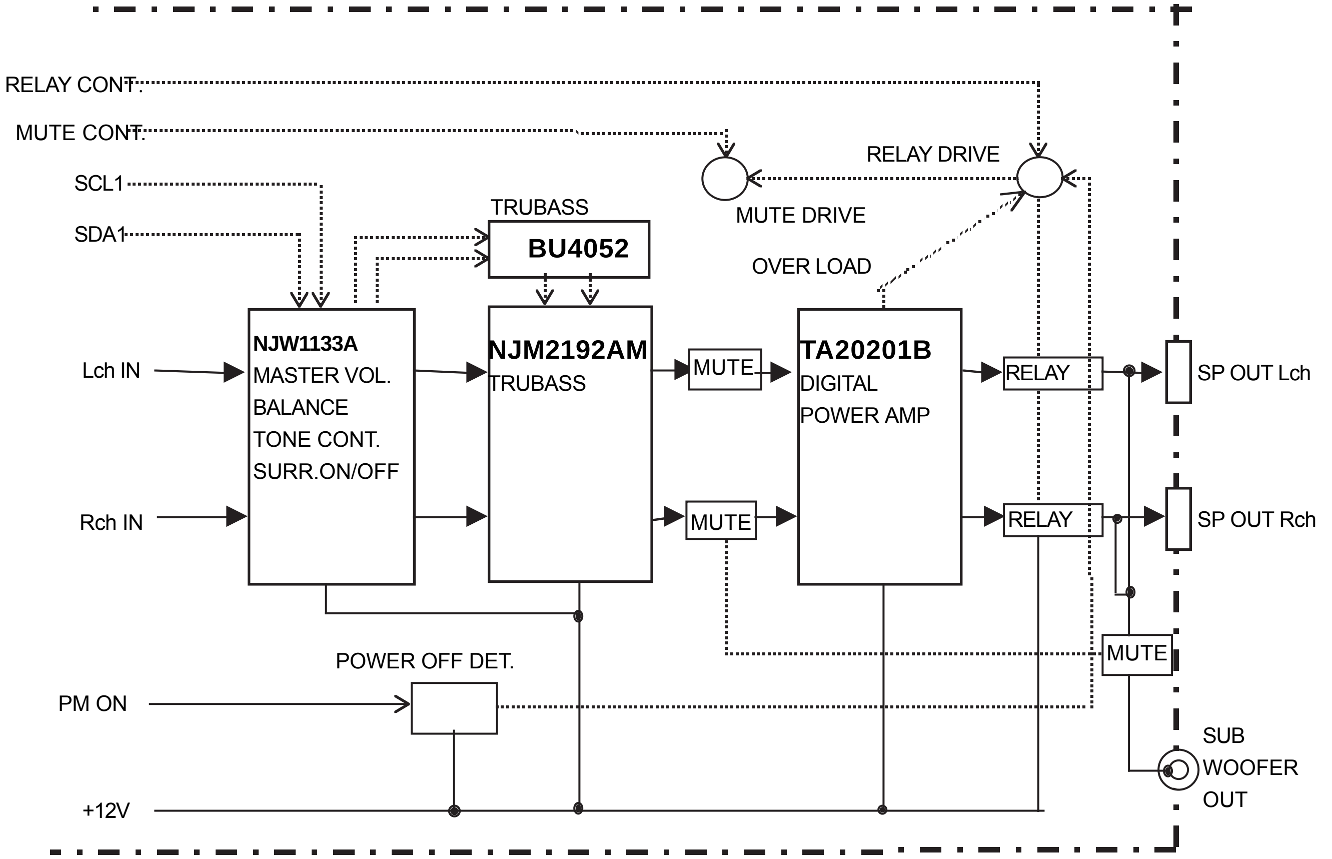

From AVC
STB+5V
16MHz
SUBSW
RXD0
TXD0
AVDET
AVDET2
PDP
Microcomputer
ARESET, SCDT
TMDS
RECEIVER
PDP PANEL
PDP-GO
CPU-GO
IRQ
LEVEL
CONVERT
SDA1
SCL1
MUTE
SPRLY
RLED
GLED
REM
FVPP
MD1
RES
RXD
TXD
SWLDET
CPDET
SW_R
SW_L
FIN
RIN
AUDDET
AUDRST
FRONT PANNEL
Power Swivel
Driver
Lip Sync
Circuit
PROGRAM
Writing
L/R
AUDIO
CONTROL
TRUBASS
AUDIO
OUT

(2) 55HDT51M (MONITOR)


From AVC
STB+5V
16MHz
SUBSW
RXDO
TXDO
AVDET
MAIN MPU
PD
TMDS RECEIVER
PDP-GO
CPU-GO
IRQ
LEVEL CONVERT
PDP PANEL
SDA1
SCL1
MUTE
SPRLY
RLED
GLED
REM
FVPP
MD1
RES
TXD
RXD
PDLVDS
AUDET
AURST
FRONT PANNEL
PROGRAM Writing
LVDS TRANSMITTER
Lip Sync Circuit
L/R
AUDIO CONTROL
TRUBASS
AUDIO OUT
SUB MPU
FC4
PROGRAM Writing

12.3 AUDIO CIRCUIT BLOCK DIAGRAM (MONITOR)

Audio Circuit Block Diagram


RELAY CONT.
MUTE CONT.
SCL1
SDA1
TRUBASS
BU4052
RELAY DRIVE
MUTE DRIVE
OVER LOAD
NJW1133A
MASTER VOL.
BALANCE
TONE CONT.
SURR.ON/OFF
NJM2192AM
TRUBASS
MUTE
MUTE
TA20201B
DIGITAL
POWER AMP
RELAY
RELAY
SP OUT Lch
SP OUT Rch
Lch IN
Rch IN
MUTE
POWER OFF DET.
PM ON
+12V
SUB
WOOFER
OUT

12.4 BLOCK DIAGRAM (AVC)

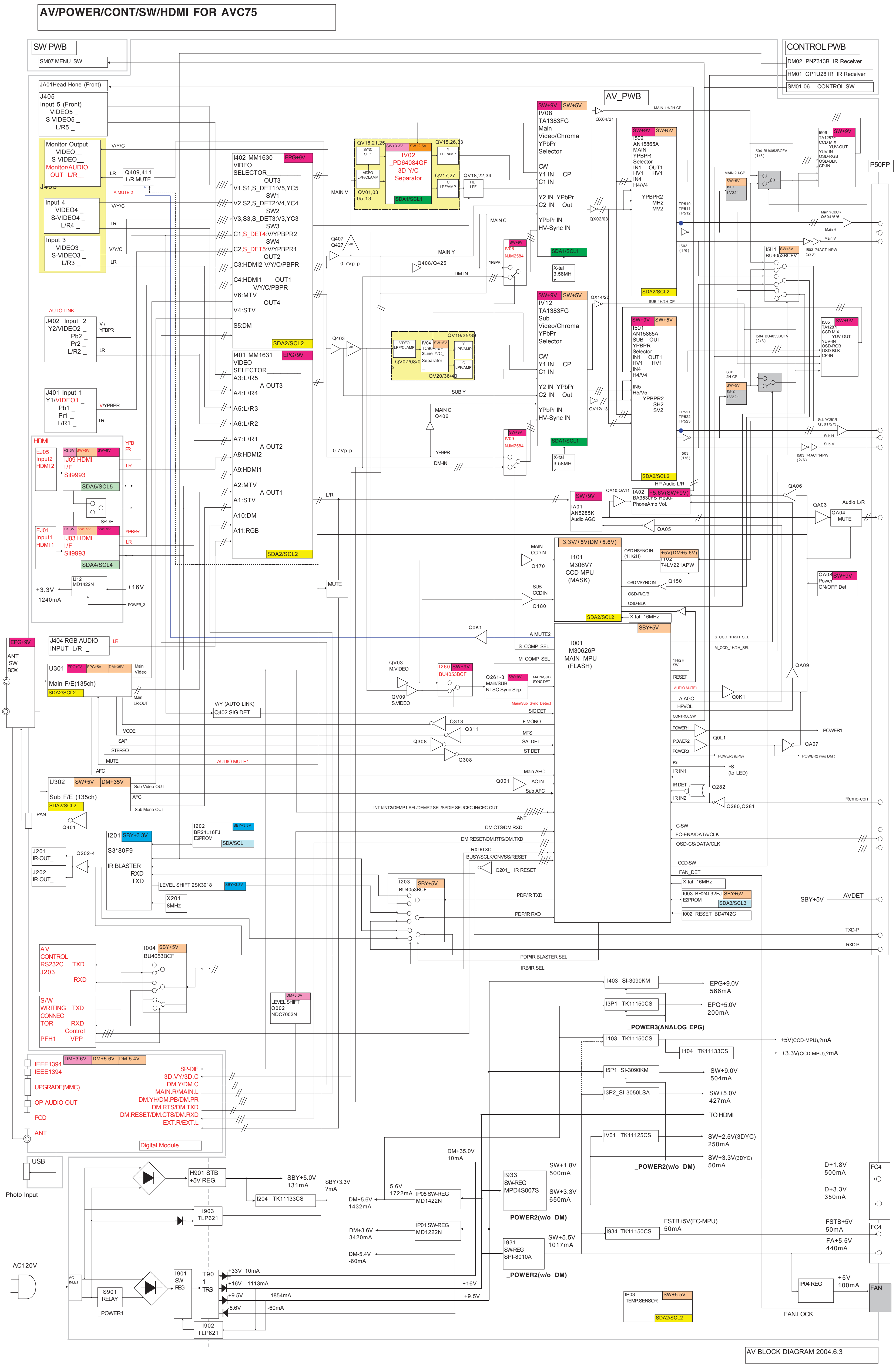
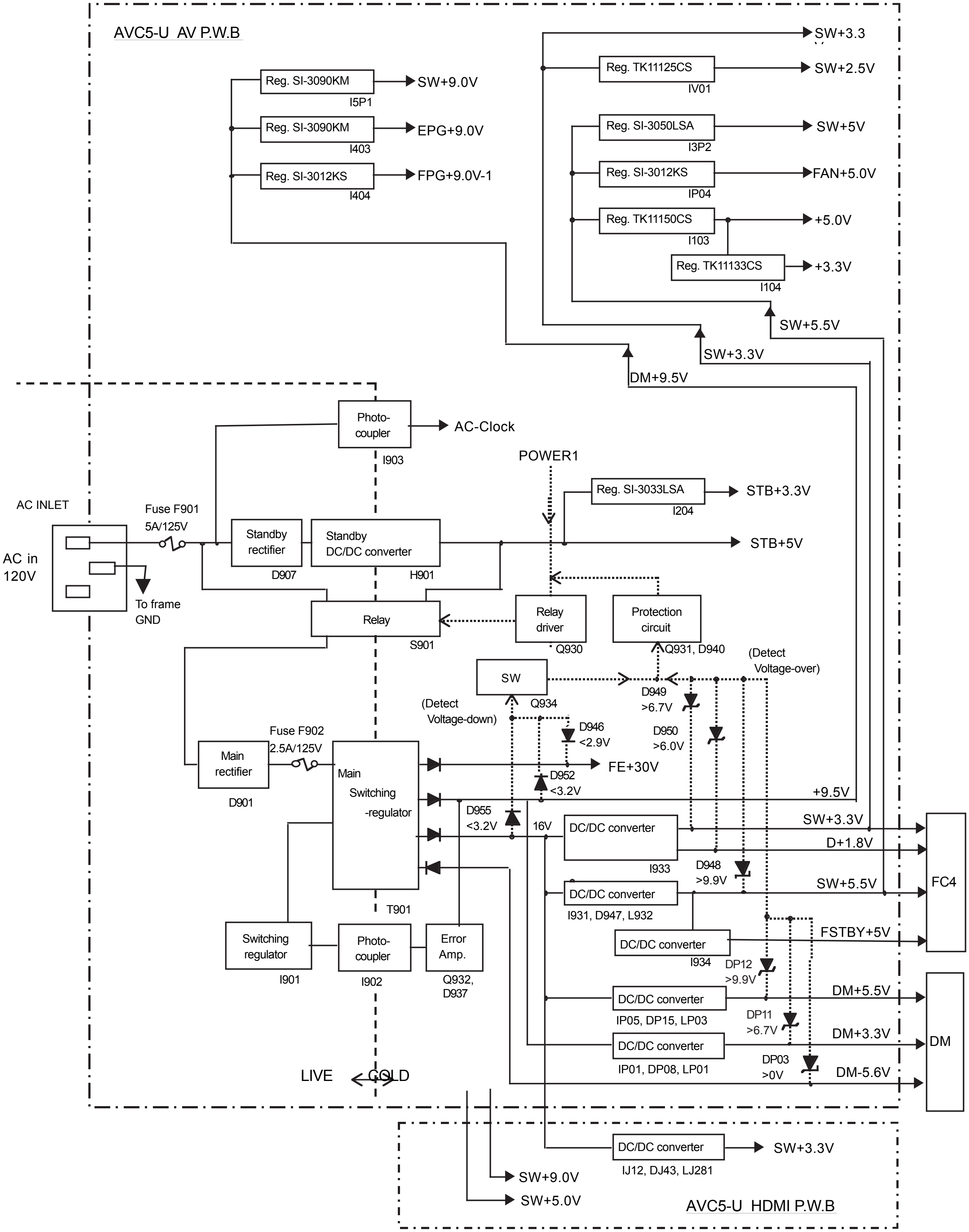
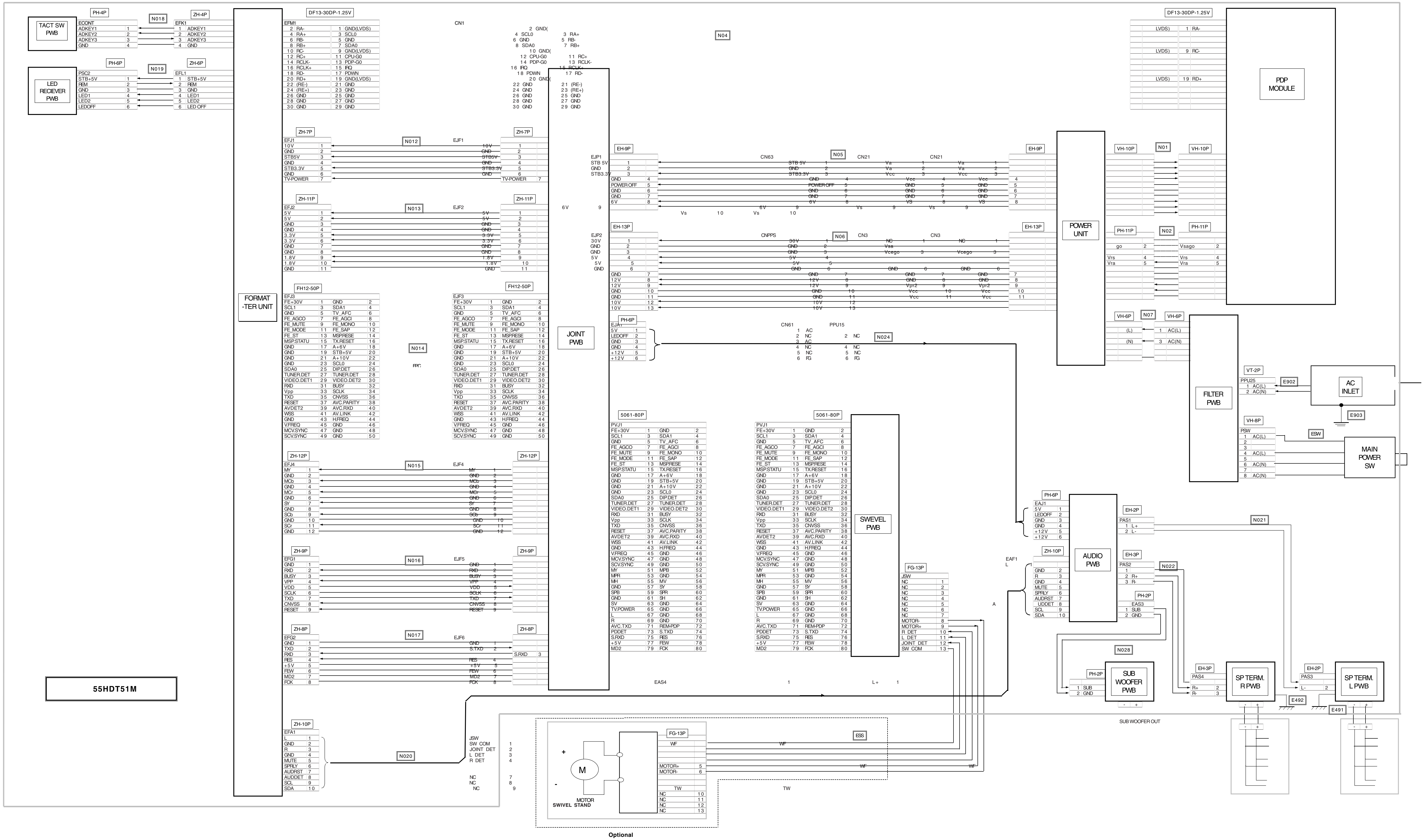

AV/POWER/CONT/SW/HDMI FOR AVC75
SW PWB
SM07 MENU SW
CONTROL PWB
DM02 PNZ313B IR Receiver
HM01 GP1U281R IR Receiver
SM01-06 CONTROL SW
AV_PWB
P50FP
JA01Head-Hone (Front)
J405 Input 5 (Front) VIDEO5 S-VIDEO5 L/R5
Monitor Output VIDEO S-VIDEO Monitor/AUDIO OUT L/R
Q409,411 L/R MUTE
Input 4 VIDEO4 S-VIDEO4 L/R4
Input 3 VIDEO3 S-VIDEO3 L/R3
AUTO LINK
J402 Input 2 Y2/VIDEO2 Pb2 Pr2 L/R2
J401 Input 1 Y1/VIDEO1 Pb1 Pr1 L/R1
HDMI
EJ05 Input2 HDMI 2
IJ09 HDMI I/F Sil9993
SDA5/SCL5
SPDIF
EJ01 Input1 HDMI 1
IJ03 HDMI I/F Sil9993
SDA4/SCL4
IJ12 MD1422N
+3.3V 1240mA
+16V
POWER_2
I402 MM1630 VIDEO SELECTOR
EPG+9V
OUT3
V1,S1,S_DET1:V5,YC5 SW1
V2,S2,S_DET2:V4,YC4 SW2
V3,S3,S_DET3:V3,YC3 SW3
C1,S_DET4:V/YPBPR2 SW4
C2,S_DET5:V/YPBPR1 OUT2
C3:HDMI2 V/Y/C/PBPR
C4:HDMI1 OUT1 V/Y/C/PBPR
V6:MTV OUT4
V4:STV
S5:DM
SDA2/SCL2
I401 MM1631 VIDEO SELECTOR
A3:L/R5 A OUT3
A4:L/R4
A5:L/R3
A6:L/R2
A7:L/R1 A OUT2
A8:HDMI2
A9:HDMI1
A2:MTV A OUT1
A1:STV
A10:DM
A11:RGB
MUTE
QV16,21,25
QV15,26,33
IV02 _PD64084GF 3D Y/C Separator
QV01,03,05,13
QV17,27
QV18,22,34
SDA1/SCL1
IV08 TA1383FG Main Video/Chroma YPbPr Selector
Y1 IN CP
C1 IN
Y2 IN YPbPr
C2 IN Out
YPbPr IN
HV-Sync IN
X-tal 3.58MH
IV06 NJM2584
IV12 TA1383FG Sub Video/Chroma YPbPr Selector
IV09 NJM2584
QV19/35/36
IV04 TC90A 2Line Y/C Separator
QV07/08/0
QV20/36/40
I502 AN15865A MAIN YPBPR Selector
I501 AN15865A SUB YPBPR Selector
I506 TA1287F CCD MIX
I505 TA1287F CCD MIX
I504 BU4053BCFV
I5H1 BU4053BCFV
I503 74ACT14PW
LV221
IA01 AN5285K Audio AGC
IA02 BA3530FS Head PhoneAmp Vol.
QA03
QA04 MUTE
QA05
QA06
Audio L/R
QA08 Power ON/OFF Det
I101 M306V7 CCD MPU (MASK)
I102 74LV221APW
Q170
Q180
I001 M30626P MAIN MPU (FLASH)
SBY+5V
X-tal 16MHz
I003 BR24L32FJ E2PROM
SDA3/SCL3
I002 RESET BD4742G
AVDET
TXD-P
RXD-P
Remo-con
POWER1
POWER2
Q0L1
QA07
QA09
Q0K1
Q282
Q280,Q281
PS (to LED)
EPG+9V ANT SW BOX
J404 RGB AUDIO INPUT L/R
U301 Main F/E(135ch)
U302 Sub F/E (135ch)
PAN
Q401
Q402 SIG.DET
Q313
Q311
Q308
QV03 M.VIDEO
QV09 S.VIDEO
I260 BU4053BCF
Q261-3 Main/SUB NTSC Sync Sep
I201 S3*80F9 IR BLASTER RXD TXD
SBY+3.3V
I202 BR24L16FJ E2PROM
LEVEL SHIFT 2SK3018
X201 8MHz
J201 IR-OUT
J202 IR-OUT
Q202-4
I203 BU4053BCF
PDP/IR TXD
PDP/IR RXD
PDP/IR BLASTER SEL
IRB/IR SEL
AV CONTROL RS232C J203 TXD RXD
I004 BU4053BCF
S/W WRITING CONNEC TOR TXD RXD Control VPP
PFH1
LEVEL SHIFT Q002 NDC7002N
IEEE1394
IEEE1394
UPGRADE(MMC)
OP-AUDIO-OUT
POD
ANT
SP-DIF
3D.VY/3D.C
DM.Y/DM.C
MAIN.R/MAIN.L
DM.YH/DM.PB/DM.PR
DM.RTS/DM.TXD
DM.RESET/DM.CTS/DM.RXD
EXT.R/EXT.L
Digital Module
DM+3.6V DM+5.6V DM-5.4V
USB
Photo Input
I403 SI-3090KM EPG+9.0V 566mA
I3P1 TK11150CS EPG+5.0V 200mA
_POWER3(ANALOG EPG)
I103 TK11150CS +5V(CCD-MPU),?mA
I104 TK11133CS +3.3V(CCD-MPU),?mA
I5P1 SI-3090KM SW+9.0V 504mA
I3P2_SI-3050LSA SW+5.0V 427mA
TO HDMI
IV01 TK11125CS SW+2.5V(3DYC) 250mA
SW+3.3V(3DYC) 50mA
_POWER2(w/o DM)
DM+35.0V 10mA
H901 STB +5V REG.
SBY+5.0V 131mA
SBY+3.3V ?mA
I204 TK11133CS
5.6V 1722mA
IP05 SW-REG MD1422N
DM+5.6V 1432mA
I903 TLP621
IP01 SW-REG MD1222N
DM+3.6V 3420mA
DM-5.4V -60mA
I933 SW-REG MPD4S007S
SW+1.8V 500mA
SW+3.3V 650mA
_POWER2(w/o DM)
D+1.8V 500mA
D+3.3V 350mA
FC4
FSTB+5V(FC-MPU) 50mA
I934 TK11150CS
FSTB+5V 50mA
FA+5.5V 440mA
I931 SW-REG SPI-8010A
SW+5.5V 1017mA
_POWER2(w/o DM)
IP04 REG
+5V 100mA
FAN
FAN.LOCK
IP03 TEMP.SENSOR
AC120V
AC INLET
S901 RELAY
_POWER1
I901 SW REG
T901 TRS
+33V 10mA
+16V 1113mA
+16V
+9.5V 1854mA
+9.5V
-5.6V -60mA
I902 TLP621
AV BLOCK DIAGRAM 2004.6.3

TABLE OF CONTENTS

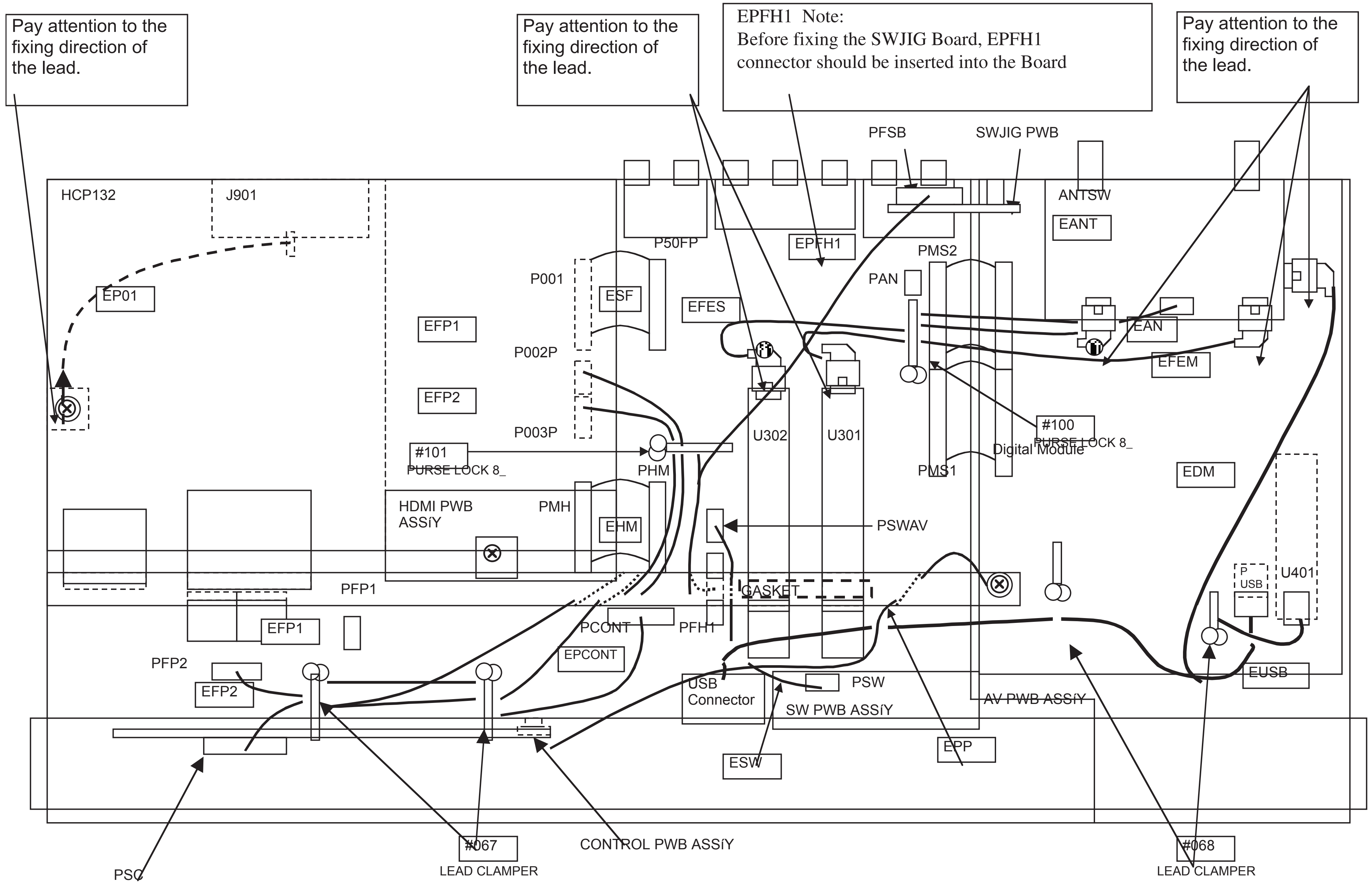
31. PROTECTION CIRCUIT BLOCK DIAGRAM (AVC)


AVC5-U AV P.W.B
Reg. SI-3090KM
I5P1
SW+9.0V
Reg. SI-3090KM
I403
EPG+9.0V
Reg. SI-3012KS
I404
FPG+9.0V-1
SW+3.3
Reg. TK11125CS
IV01
SW+2.5V
Reg. SI-3050LSA
I3P2
SW+5V
Reg. SI-3012KS
IP04
FAN+5.0V
Reg. TK11150CS
I103
+5.0V
Reg. TK11133CS
I104
+3.3V
SW+5.5V
SW+3.3V
DM+9.5V
Photo-coupler
I903
AC-Clock
POWER1
Reg. SI-3033LSA
I204
STB+3.3V
AC INLET
Fuse F901
5A/125V
Standby rectifier
D907
Standby DC/DC converter
H901
STB+5V
AC in 120V
To frame GND
Relay
S901
Relay driver
Q930
Protection circuit
Q931, D940
(Detect Voltage-over)
SW
Q934
(Detect Voltage-down)
D949
>6.7V
D946
<2.9V
D950
>6.0V
Fuse F902
2.5A/125V
Main rectifier
D901
Main Switching -regulator
T901
D952
<3.2V
FE+30V
+9.5V
D955
<3.2V
16V
DC/DC converter
I933
SW+3.3V
D+1.8V
D948
>9.9V
DC/DC converter
I931, D947, L932
SW+5.5V
FC4
DC/DC converter
I934
FSTBY+5V
DP12
>9.9V
DC/DC converter
IP05, DP15, LP03
DM+5.5V
DP11
>6.7V
DC/DC converter
IP01, DP08, LP01
DM+3.3V
DM
DP03
>0V
DM-5.6V
Switching regulator
I901
Photo-coupler
I902
Error Amp.
Q932, D937
LIVE
COLD
DC/DC converter
IJ12, DJ43, LJ281
SW+3.3V
SW+9.0V
SW+5.0V
AVC5-U HDMI P.W.B

12.6 CONNECTION DIAGRAM (MONITOR)


TACT SW PWB
LED RECIEVER PWB
PH-4P
N018
ZH-4P
PH-6P
N019
ZH-6P
FORMAT -TER UNIT
DF13-30DP-1.25V
CN1
N04
JOINT PWB
ZH-7P
N012
ZH-11P
N013
FH12-50P
N014
ZH-12P
N015
ZH-9P
N016
ZH-8P
N017
ZH-10P
N020
EH-9P
N05
CN63
CN21
EH-13P
N06
CNPPS
CN3
PH-6P
CN61
PPU15
N024
POWER UNIT
VH-10P
N01
PH-11P
N02
VH-6P
N07
PDP MODULE
FILTER PWB
VT-2P
E902
AC INLET
AC120V
E903
VH-8P
ESW
MAIN POWER SW
5061-80P
SWEVEL PWB
FG-13P
AUDIO PWB
EH-2P
N021
EH-3P
N022
PH-2P
N028
SUB WOOFER PWB
SUB WOOFER OUT
SP TERM. R PWB
SP TERM. L PWB
E492
E491
ESS
M
MOTOR SWIVEL STAND
Optional
55HDT51M

FINAL WIRING DIAGRAM (AVC)


PFSB
SWJIG PWB
HCP132
J901
ANTSW
EANT
P50FP
EPFH1
PMS2
PAN
P001
ESF
EFES
EP01
EFP1
EAN
P002P
EFEM
EFP2
P003P
U302
U301
#100
PURSE LOCK 8_
#101
PURSE LOCK 8_
Digital Module
PHM
PMS1
EDM
HDMI PWB
ASSiY
PMH
EHM
PSWAV
P
USB
U401
GASKET
PFP1
EFP1
PCONT
PFH1
EPCONT
PFP2
EFP2
EUSB
USB
Connector
PSW
SW PWB ASSiY
AV PWB ASSiY
ESW
EPP
#067
LEAD CLAMPER
CONTROL PWB ASSiY
#068
LEAD CLAMPER
PSC

Pay attention to the fixing direction of the lead.

Pay attention to the fixing direction of the lead.

EPFH1 Note:
Before fixing the SWJIG Board, EPFH1 connector should be inserted into the Board

Pay attention to the fixing direction of the lead.

PSC Note:
Before fixing the CONTROL Board, PSC connector should be inserted into the Board

SPECIFICATION

1. This Drawing shows the wire dressing and connectors connection of AVC5-U Final Assy.

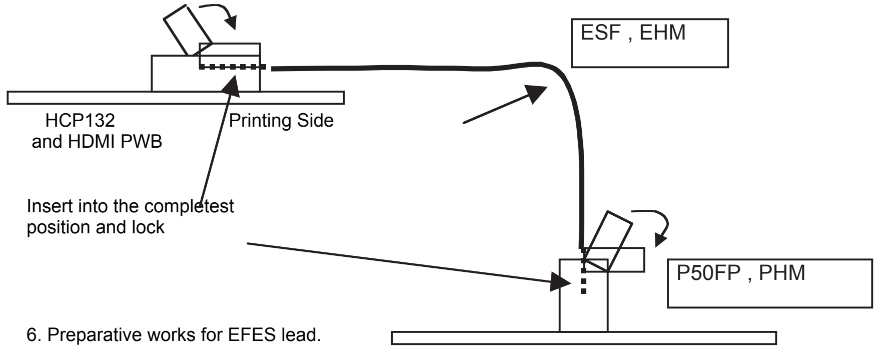
2. Connectors with wire should be inserted into Plug Pin Posts as shoen on the table below.

Connector Wire		Plug Pin 1		Plug Pin 2	
Name	Assy List	Board	Name	Board	Name
EPCONT	FINAL ASSY	Control Board	PSC	AV Board	PCONT
EFP1	FINAL ASSY	AV Board	PFP1	HCP132	P002P
EFP2	FINAL ASSY	AV Board	PFP2	HCP132	P003P
ESF	FINAL ASSY	AV Board	P50FP	HCP132	P001
EHM	FINAL ASSY	AV Board	PHM	HDMI Board	PMH
EFEM	FINAL ASSY	ANT SW	EANT	AV Board	U301
EFES	FINAL ASSY	ANT SW	EANT	AV Board	U302
EAN	FINAL ASSY	ANT SW	EANT	AV Board	PAN
EPFH1	FINAL ASSY	SWJIG Board	PFSB	AV Board	PFH1
EPP	FINAL ASSY	DM Shield Metal	(Screw)	Front Panel	(Screw)
EP01	AV ASSY	AV Board	J901	Bottom Chassis	(Screw)
EDM	FINAL ASSY	ANT SW	EANT	Digital Module	U401
ESW	FINAL ASSY	AV Board	PSWAV	SW Board	PSW
PMS1	FINAL ASSY	AV Board	PMS1	Digital Module	PMS1
PMS2	FINAL ASSY	AV Board	PMS2	Digital Module	PMS2
EUSB	FINAL ASSY	Front Bracket Metal	(Screw)	Digital Module	PUSB

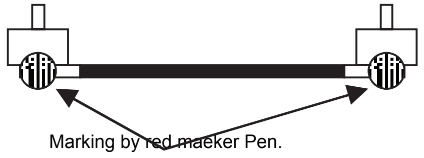
3. Into Plug Pin Post with Lock function, connector housing should be inserted completely until it can be locked.

4. Into Plug Pin Post without Lock function, connector housing should be inserted most completely.

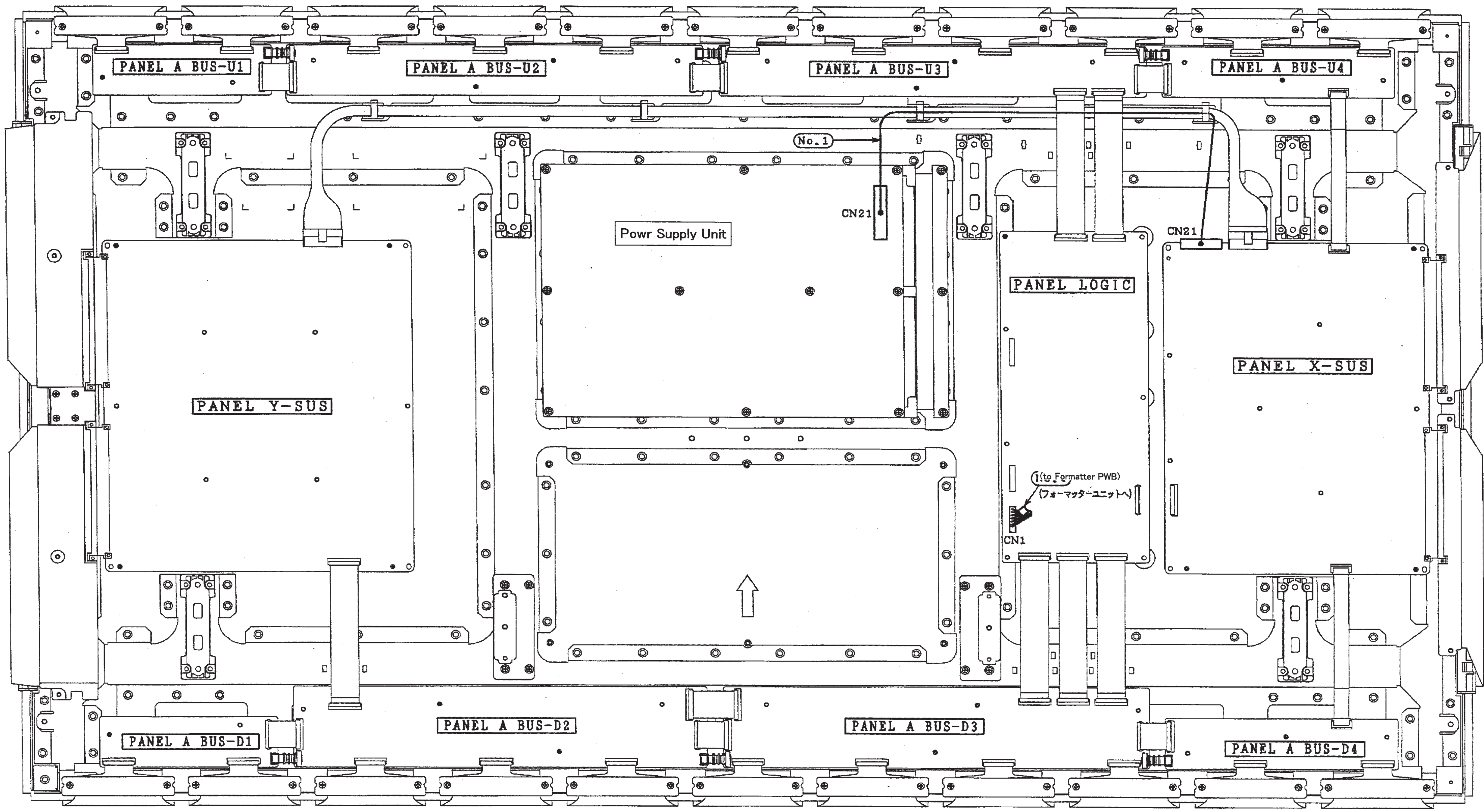
5. Flexible Flat Cable ESF and EHM should be fixed as shown on the drawing below.


ESF , EHM
HCP132
and HDMI PWB
Printing Side
Insert into the completest
position and lock
P50FP , PHM

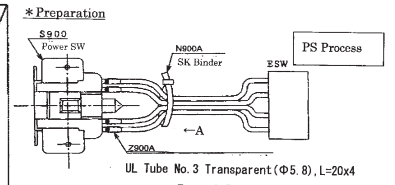
6. Preparative works for EFES lead.


Marking by red maeker Pen.

FINAL WIRING DIAGRAM (MONITOR)


PANEL A BUS-U1
PANEL A BUS-U2
PANEL A BUS-U3
PANEL A BUS-U4
No.1
CN21
Powr Supply Unit
CN21
PANEL LOGIC
PANEL Y-SUS
PANEL X-SUS
(1)(to Formatter PWB)
(フォーマッターユニットへ)
CN1
PANEL A BUS-D1
PANEL A BUS-D2
PANEL A BUS-D3
PANEL A BUS-D4

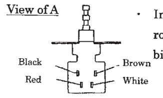
*Preparation


S900
Power SW
N900A
SK Binder
ESW
PS Process
←A
Z900A

UL Tube No.3 Transparent(Φ5.8),L=20x4

- Part of ● : Wrap and solder
- Insert each tubes to a power SW terminal root, and Fixed each tubes tip with SK binder.

View of A


Black
Red
Brown
White

Use Pb Free Solder

PW1 Chassis(55") Wiring Diagram Specification

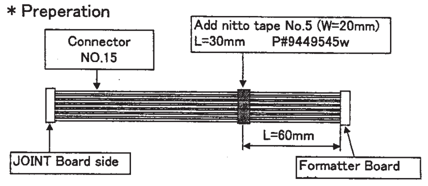
1.This drawing shows the wire dressing and connector's connection of Final Ass'y.
2.This drawing shows the back side view of the set.
3.Connector with rock structure: The connector housing should be inserted deeply until it can be locked.
  Other connector : The connector housing should be inserted most deeply until root of the plug pin post.
4.Connector's connection: Refer to the Table-1.

5.Lug terminal cable(E903,E920,E921) should be fixed by screw: Refer to the Final Ass'y drawing (UQ3470).
6.Lead holder of(＊2)Portion: The wire should be inserted for inside.
7.When you close the ferrite core, lock it firmly. (Until clicked sound come from ferrite core)

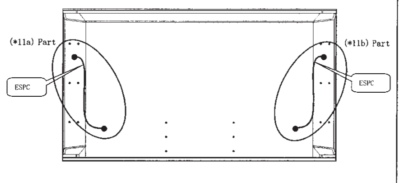
Table-

From		Connection Cable	To		Remarks
Connection	PWB Name		Connection	PWB Name	
CN21	POWER	NO1	CN21	PANEL X-SUS	
CN3	POWER	NO2	CN3	PANEL LOGIC	
EFM1	FORMATTER	NO4	CN1	PANEL LOGIC	
CN63	POWER	NO5	EJP1	JOINT	
CNPPS	POWER	NO6	EJP2	JOINT	
CN61	POWER	NO7	PPU15	FILTER	
EJF1	JOINT	NO12	EFJ1	FORMATTER	
EJF2	JOINT	NO13	EFJ2	FORMATTER	
EJF3	JOINT	NO14	EFJ3	FORMATTER	
EJF4	JOINT	NO15	EFJ4	FORMATTER	
EFG1	FORMATTER	NO16	EJF5	JOINT	
EFG2	FORMATTER	NO17	EJF6	JOINT	
EFK1	FORMATTER	NO18	ECONT	TACT SW	
EFL1	FORMATTER	NO19	PSC2	LED/RECEIVER	
EFA1	FORMATTER	NO20	EAF1	AUDIO	
EAS1	AUDIO	NO21	PAS3	SP TERMINAL L	
EAS2	AUDIO	NO22	PAS4	SP TERMINAL R	
EJA1	JOINT	NO24	EAJ1	AUDIO	
EAS3	AUDIO	NO28	EAS4	SUB WOOFER	
AC INLET	AC INLET	E902	PPU25	FILTER	
AC INLET	AC INLET	E903	シャシGND	シャシGND	
PSW5	FILTER	ESW	ESW	SW	
GND	FORMATTER	E920	GND	JOINT	
GND	FORMATTER	E921	GND	JOINT	

＊Preperation


Connector
NO.15
Add nitto tape No.5 (W=20mm)
L=30mm P#9449545w
L=60mm
JOINT Board side
Formatter Board

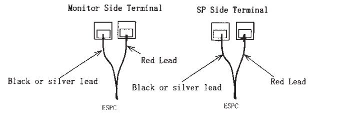
Connection of SP Cable


(*11a) Part
(*11b) Part
ESPC
ESPC

(*11a) Part (*11b) Part Spec.

SP Cable (ESPC) It is cautious of polarity as follows, and is the thing of an assembly.

Details of these styles should be referred to the Final Ass'y drawing (UQ3470).

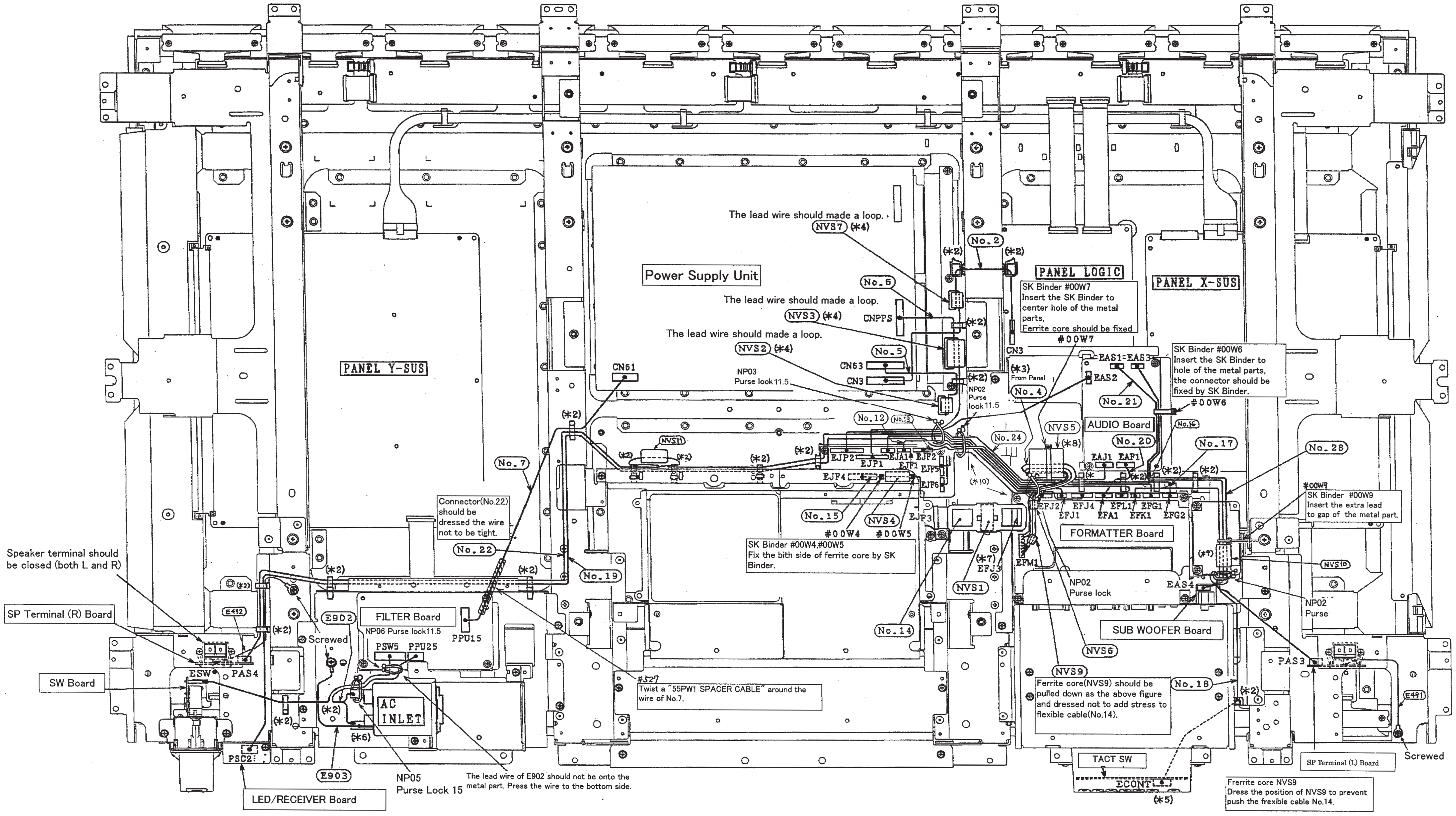

Monitor Side Terminal
SP Side Terminal
Red Lead
Black or silver lead
Black or silver lead
Red Lead
ESPC
ESPC

Note

ESPC has put two pieces into the bag by 1 set.

Use it for SP on either side.

FINAL WIRING DIAGRAM (MONITOR)


Power Supply Unit
PANEL Y-SUS
PANEL LOGIC
PANEL X-SUS
NVS7 (*4)
No.2
(*2)
No.6
NVS3 (*4)
CNPPS
NVS2 (*4)
No.5
CN63
CN3
CN61
NP03
Purse lock 11.5
NP02
Purse
lock 11.5
(*3)
From Panel
No.4
#00W7
EAS1=EAS3
EAS2
No.21
#00W6
AUDIO Board
No.16
NVS5
(*8)
No.20
No.17
No.28
No.12
No.13
No.24
NVS11
EJP2
EJP1
EJA1
EJF2
EJF1
EJF5
EJF6
EJF4
EJF3
(*10)
No.15
NVS4
#00W4
#00W5
EFJ2
EFJ1
EFJ4
EFA1
EFL1
EFK1
EFG1
EFG2
FORMATTER Board
#00W9
(*9)
NVS10
(*7)
EFJ3
EFM1
NVS1
NP02
Purse lock
EAS4
NP02
Purse
SUB WOOFER Board
NVS6
No.14
NVS9
No.18
TACT SW
ECONT
(*5)
PAS3
E491
SP Terminal (L) Board
Screwed
No.7
No.22
No.19
SP Terminal (R) Board
SW Board
E492
ESW
PAS4
PSC2
LED/RECEIVER Board
E902
Screwed
FILTER Board
NP06 Purse lock11.5
PSW5
PPU25
PPU15
AC INLET
(*6)
E903
NP05
Purse Lock 15
#527

The lead wire should made a loop.

The lead wire should made a loop.

The lead wire should made a loop.

SK Binder #00W7
Insert the SK Binder to center hole of the metal parts,
Ferrite core should be fixed

SK Binder #00W6
Insert the SK Binder to hole of the metal parts, the connector should be fixed by SK Binder.

SK Binder #00W9
Insert the extra lead to gap of the metal part.

SK Binder #00W4,#00W5
Fix the bith side of ferrite core by SK Binder.

Connector(No.22) should be dressed the wire not to be tight.

Speaker terminal should be closed (both L and R)

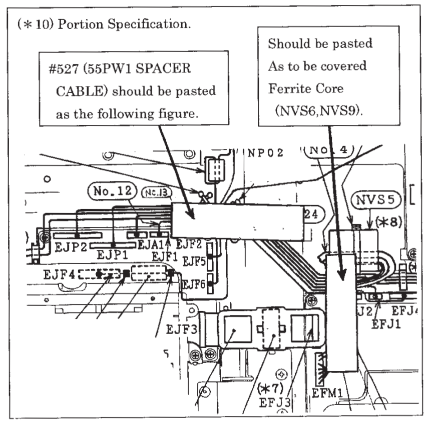
Twist a "55PW1 SPACER CABLE" around the wire of No.7.

The lead wire of E902 should not be onto the metal part. Press the wire to the bottom side.

Ferrite core(NVS9) should be pulled down as the above figure and dressed not to add stress to flexible cable(No.14).

Frerrite core NVS9
Dress the position of NVS9 to prevent push the frexible cable No.14.

(∗10) Portion Specification.

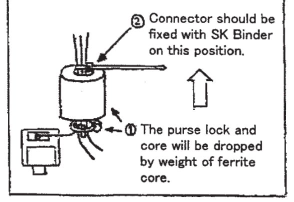

NP02
No.4
No.12
No.13
24
NVS5
(*8)
EJP2
EJP1
EJA1
EJF2
EJF1
EJF5
EJF6
EJF4
EJF3
J2
EFJ4
EFJ1
(*7)
EFJ3
EFM1

#527 (55PW1 SPACER CABLE) should be pasted as the following figure.

Should be pasted
As to be covered
Ferrite Core
(NVS6,NVS9).

(*9)Portion Specification

Ferrite core(NVS10) should be fixed by SK Binder(#00W9) as the following figure.



② Connector should be fixed with SK Binder on this position.

① The purse lock and core will be dropped by weight of ferrite core.

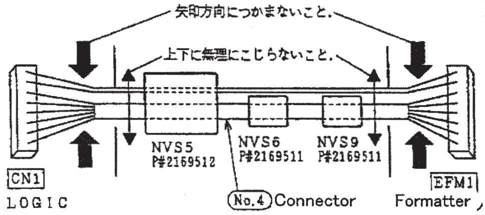
(*3) Part Specification

Take care of the following items to prevent the wire problems, for example, broken wire or loose contact.

(1) Do not hold the root of the connector wire toward arrow's direction. shown on the drawing below. It stress to the wires at both end.

(2) Do not bend the wire toward arrow's direction when removing the connector. (It stress to the wires at both end.)

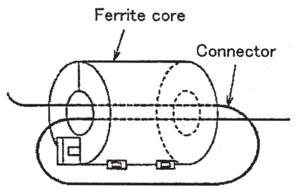
(NVS5): Large core(TDK): Fix to the shield wire and singl wire.
The wire should not be piched by core.
(NCS6): Small core(TDK): Fix to the shield wire.
(NVS9)


矢印方向につかまないこと。
上下に無理にこじらないこと。
NVS5
P#2169512
NVS6
P#2169511
NVS9
P#2169511
CN1
LOGIC
No.4 Connector
EFM1
Formatter

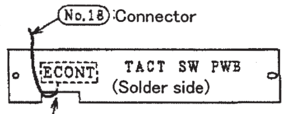
(*4) Part Specification

(Caution)
Close the core after making a wire roll into the core.
Do not pinch the wire by lock of the core.
The core should be locked firmly.
The following 3 points should be made a

Connector	Ferrite core
·No.2	NVS7
·No.6	NVS3
·No.5	NVS2


Ferrite core
Connector

(*5) Part Specification

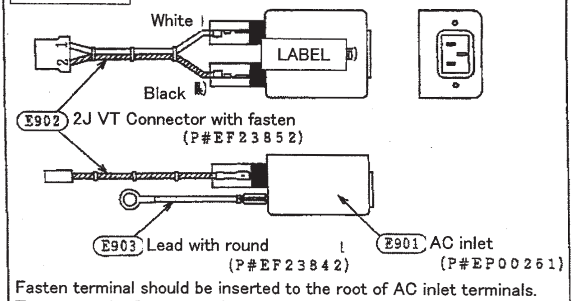

No.18 Connector
ECONT
TACT SW PWB
(Solder side)

Connector No.18 should be dressed through the cutting portion of the Tact SW PWB.

(*6) Part Specification

Connection of AC inlet(E901) should be following.

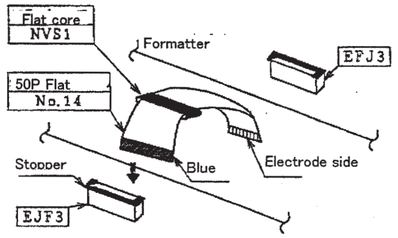
PS Process


White
LABEL
Black
E902 2J VT Connector with fasten
(P#EF23852)
E903 Lead with round
(P#EF23842)
E901 AC inlet
(P#EP00251)

Fasten terminal should be inserted to the root of AC inlet terminals. To remove the fasten terminals, press and hold the lock button and then pull the terminal.

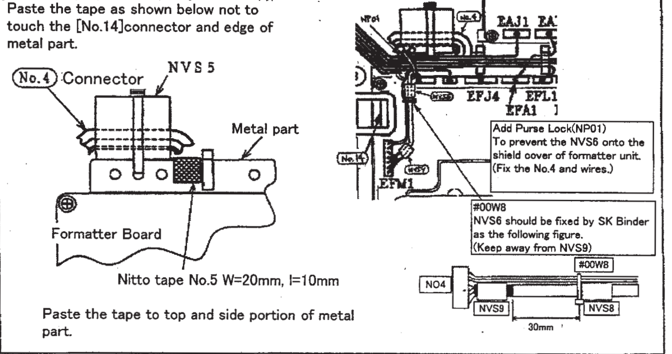
(*7) Part Specification

Insert the Flat Cable noNO.14 as shown below and press the stopper to lock.
Flat Cable should be inserted through Flat Core NVS1.
For more detail information about fix NVS1, refer to the Final Ass'y Drawing.


Flat core
NVS1
Formatter
EFJ3
50P Flat
No.14
Stopper
Blue
Electrode side
EJF3

(*8) Part Specification

(Caution)
Paste the tape as shown below not to touch the [No.14]connector and edge of metal part.


No.4 Connector
NVS5
Metal part
Formatter Board
NP01
No.4
EAJ1
EFJ4
EFL1
EFA1
No.14
EFM1
NO4
NVS9
#00W8
NVS8
30mm

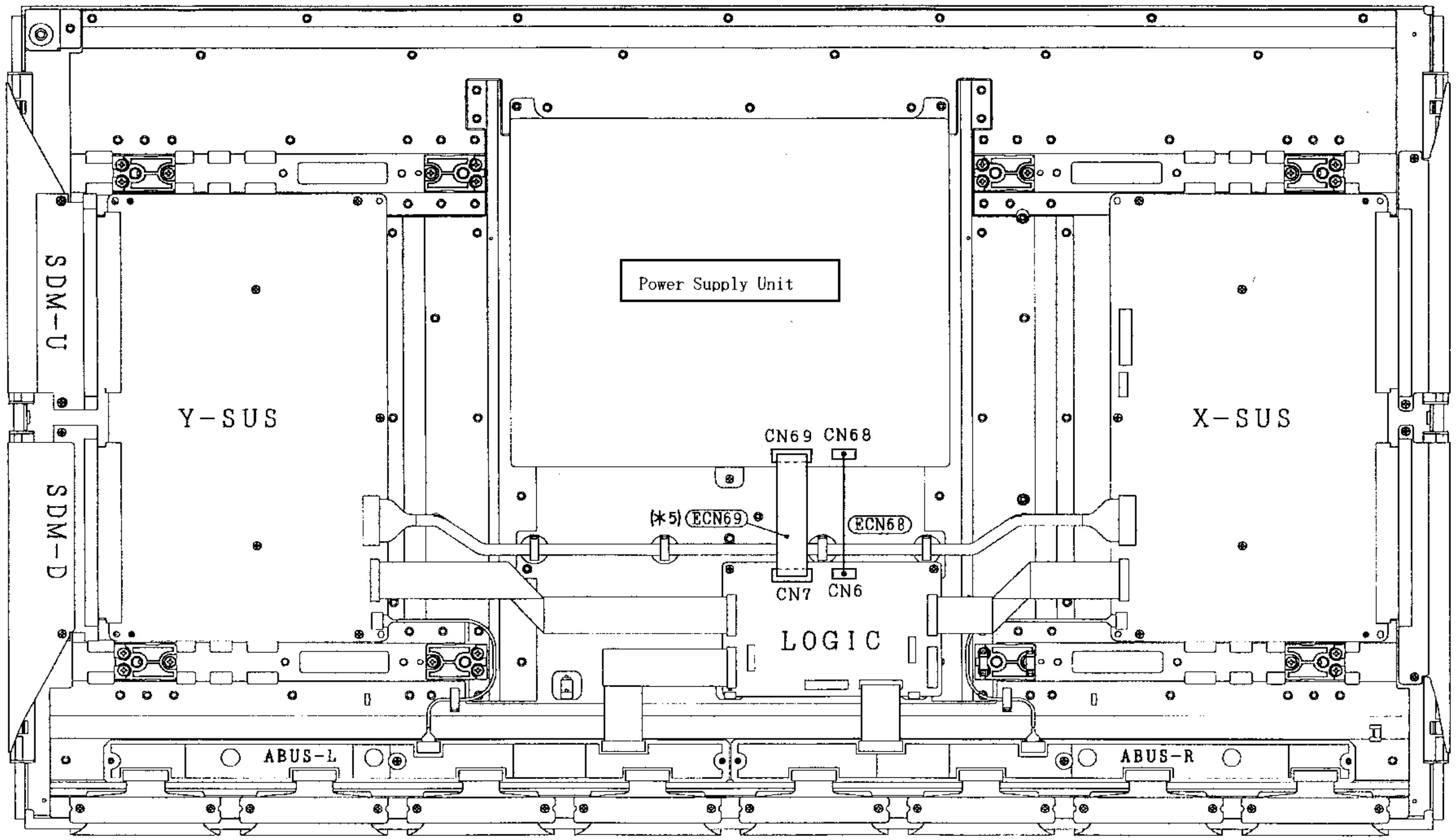
Nitto tape No.5 W=20mm, l=10mm

Paste the tape to top and side portion of metal part.

Add Purse Lock(NP01)
To prevent the NVS6 onto the shield cover of formatter unit.
(Fix the No.4 and wires.)

#00W8
NVS6 should be fixed by SK Binder as the following figure.
(Keep away from NVS9)

FINAL WIRING DIAGRAM (MONITOR)



PT5-G (42") Wiring Diagram Specification

Specification

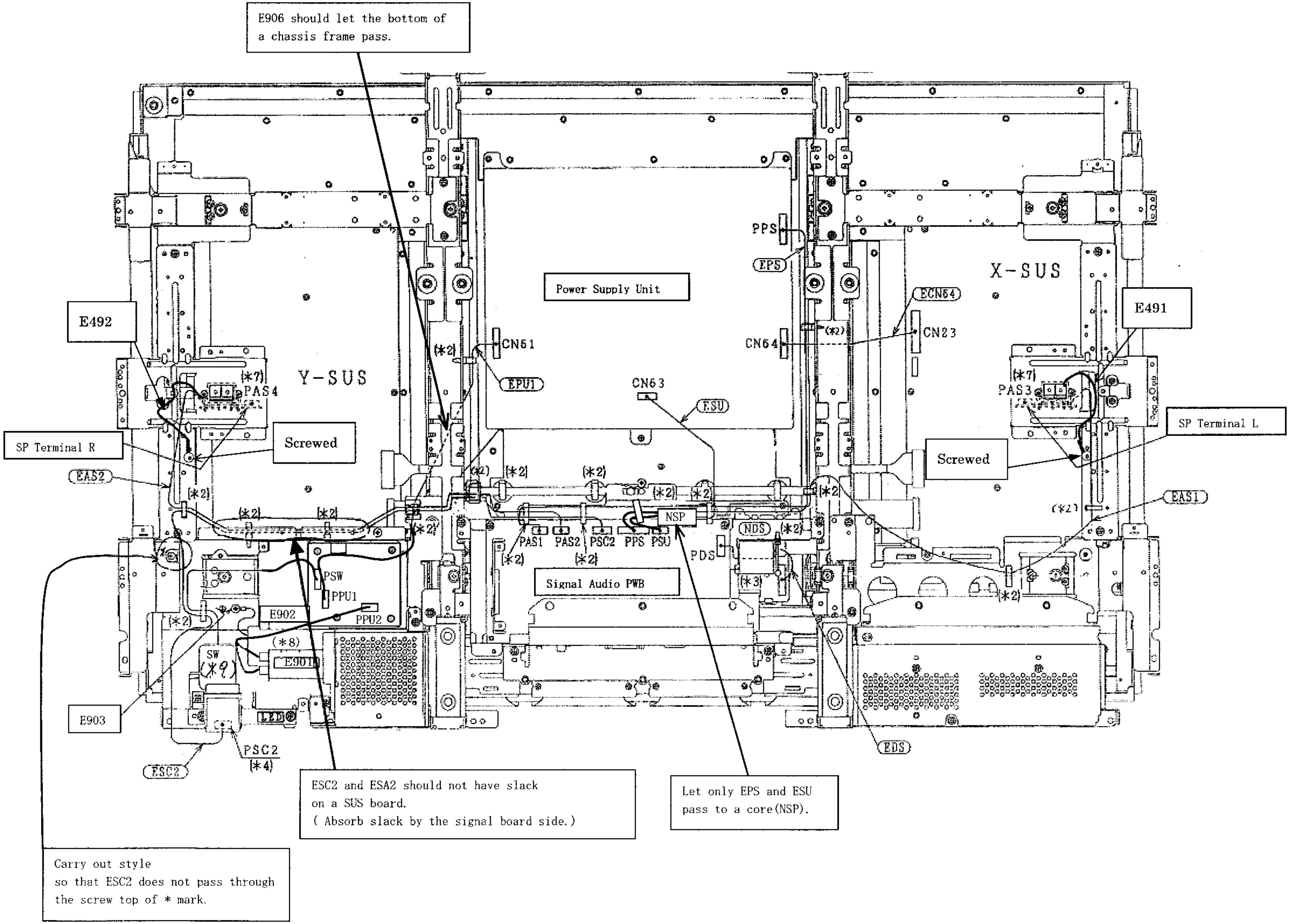
1. This Drawing shows the wire dressing and connectors' connection of PT5-G Final Assy.
2. Connectors with wire should be inserted into Plug Pin Posts as shown on the table below
3. Into Plug Pin Post with Lock function, connector housing should be inserted deeply until it can be locked.
4. Refer to below table for connection of connector.

Connectors with wire	Plug Pin Post	Board Name	Plug Pin Post	Board Name	Note
ECN69	CN69	Power Supply Unit	CN7	Panel Logic Board	
ECN64	CN64	Power Supply Unit	CN23	Panel Xsus Board	
ECN68	CN68	Power Supply Unit	CN6	Panel Logic Board	
EAS1	PAS3	Speaker Terminal (L)	PAS1	Signal/Audio Board	
EAS2	PAS4	Speaker Terminal (R)	PAS2	Signal/Audio Board	
ESC2	PCS2	LED Board	PSC2	Signal/Audio Board	
EDS	CN1	Panel Logic Board	PDS	Signal/Audio Board	
ESU	CN63	Power Supply Unit	PSU	Signal/Audio Board	
EPS	CNPPS	Power Supply Unit	PPS	Signal/Audio Board	
EPU1	CN61	Power Supply Unit	PPU1	Filter Board	
E902	-	Noise Filter	PPU2	Filter Board	
ESW	-	SW Board	PSW	Filter Board	
E903	-	Noise Filter	-	Chassis Frame	
E906	-	Panel module	-	Chassis Frame	

5. Cables with 1P terminal (E902 and E906) should be fixed with screws as shown on Final Assy Drawing (UQ3469)
6. When closing the ferrite core, the claw of core should be locked and clicked surely.

Note *1: Wires should be fixed inside Lead Clamp and locked if available.
Note *2: Wires should be inserted into Lead Holder surely and locked if available.

FINAL WIRING DIAGRAM (MONITOR)



E906 should let the bottom of a chassis frame pass.

ESC2 and ESA2 should not have slack on a SUS board. (Absorb slack by the signal board side.)

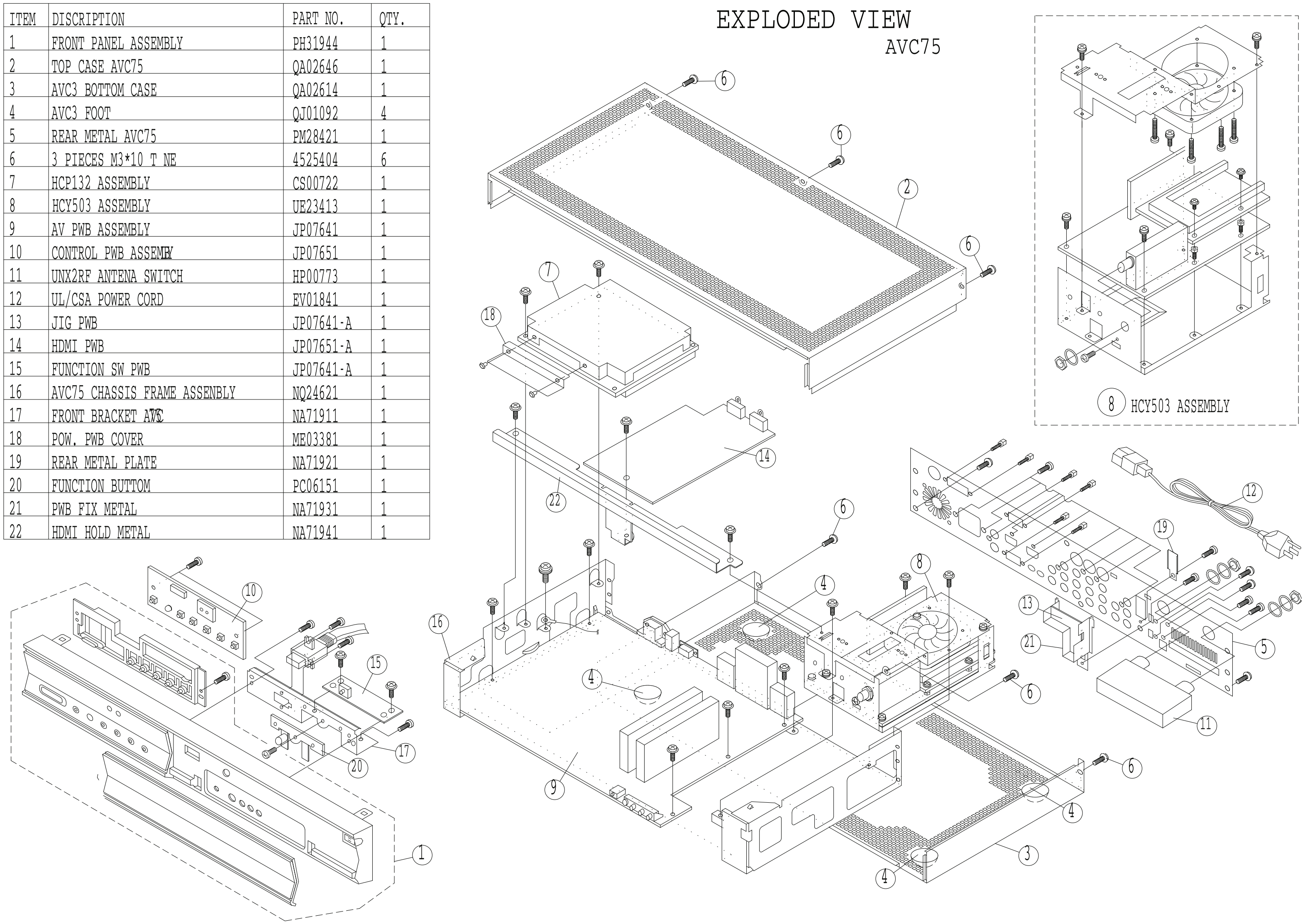
Let only EPS and ESU pass to a core(NSP).

Carry out style so that ESC2 does not pass through the screw top of * mark.

E492
SP Terminal R
EAS2
Screwed
Y-SUS
PAS4
(*7)
(*2)
CN51
EPU1
Power Supply Unit
CN63
ESU
PPS
EPS
CN64
ECN54
CN23
X-SUS
E491
PAS3
SP Terminal L
Screwed
EAS1
NSP
NDS
PAS1
PAS2
PSC2
PPS
PSU
PDS
(*3)
Signal Audio PWB
PSW
PPU1
PPU2
E902
(*8)
SW
(*9)
E901
E903
LED
PSC2
(*4)
ESC2
EDS

EXPLODED VIEW

EXPLODED VIEW
AVC75



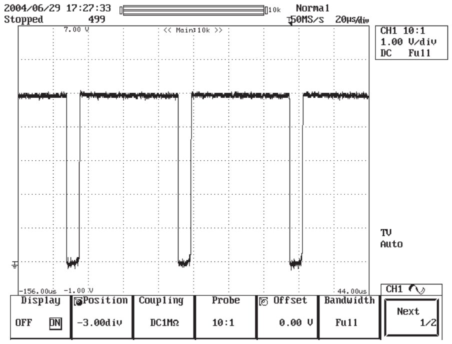
AVC75 EXPLODED VIEW PARTS LIST

ITEM	DISCRIPTION	PART NO.	QTY.
1	FRONT PANEL ASSEMBLY	PH31944	1
2	TOP CASE AVC75	QA02646	1
3	AVC3 BOTTOM CASE	QA02614	1
4	AVC3 FOOT	QJ01092	4
5	REAR METAL AVC75	PM28421	1
6	3 PIECES M3*10 T NE	4525404	6
7	HCP132 ASSEMBLY	CS00722	1
8	HCY503 ASSEMBLY	UE23413	1
9	AV PWB ASSEMBLY	JP07641	1
10	CONTROL PWB ASSEMBLY	JP07651	1
11	UNX2RF ANTENA SWITCH	HP00773	1
12	UL/CSA POWER CORD	EV01841	1
13	JIG PWB	JP07641-A	1
14	HDMI PWB	JP07651-A	1
15	FUNCTION SW PWB	JP07641-A	1
16	AVC75 CHASSIS FRAME ASSENBLY	NQ24621	1
17	FRONT BRACKET AVC75	NA71911	1
18	POW. PWB COVER	ME03381	1
19	REAR METAL PLATE	NA71921	1
20	FUNCTION BUTTOM	PC06151	1
21	PWB FIX METAL	NA71931	1
22	HDMI HOLD METAL	NA71941	1

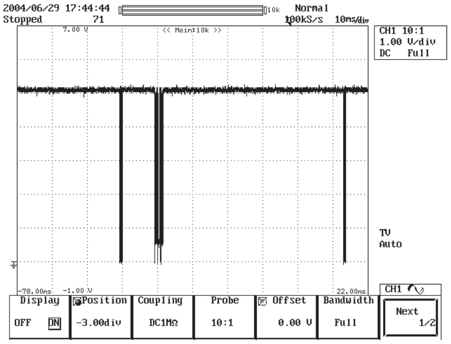
13. WAVEFORMS AT EACH SECTION

Numbers inside circle correspond to locations shown in the circuit diagram.

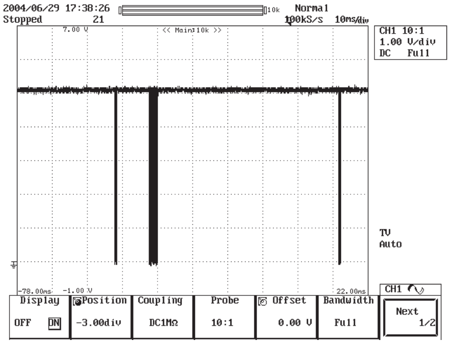
① I001 Pin 21



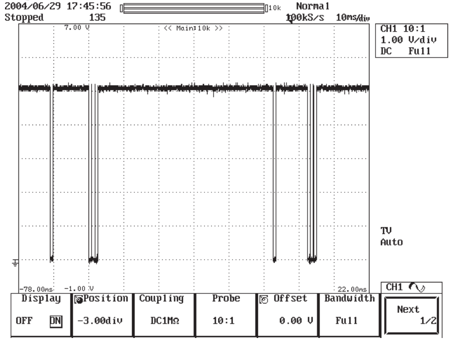
② I001 Pin 52



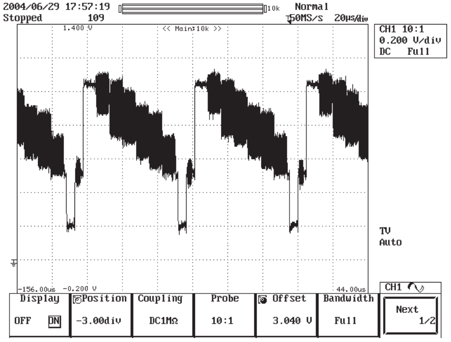
③ I001 Pin 53



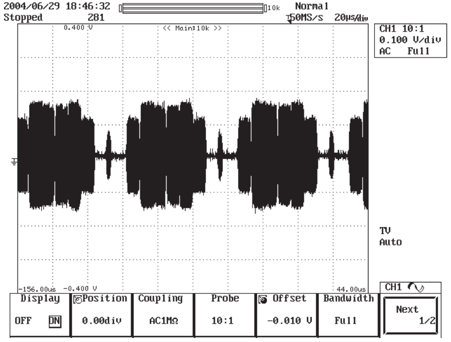
④ I001 Pin 54



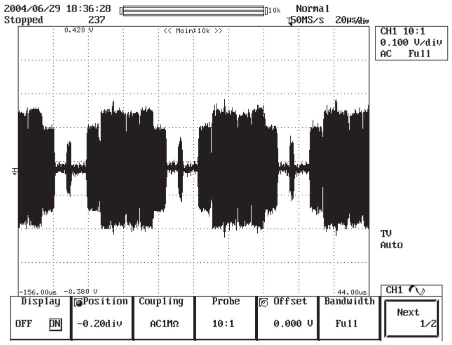
⑤ I401 Pin 56



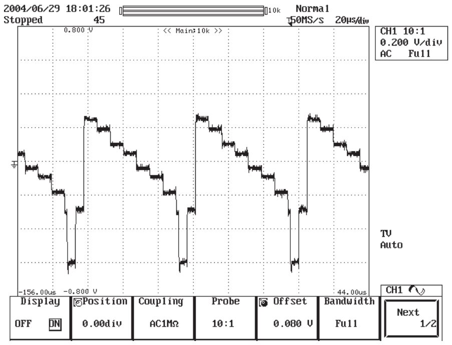
⑥ IV08 Pin 16



⑦ IV12 Pin 16



⑧ IV12 Pin 2



14. AVC DC VOLTAGE TABLES

symbol	Pin No.	DC Voltage[V]
IP05	1	4.42
	2	4.96
	3	4.99
	4	0
	5	0
	6	16.9
	7	0
	8	6.555
	9	3.61
	10	0.05
	11	5.52
	12	5.52
	13	5.52
	14	5.52
	15	0.01
	16	0
	17	0.03
	18	16.9
	19	16.9
	20	16.9
	21	16.9
	22	0.04
	23	7.12
	24	0.01
	25	11.82
	26	0
	27	0.33
	28	4.89
	29	0.03
	30	1.51
	31	0.03
	32	2.42

I202	1	0
	2	0
	3	0
	4	0
	5	3.28
	6	3.28
	7	0
	8	3.28

symbol	Pin No.	DC Voltage[V]
I004	1	5.047
	2	0.57
	3	0.49
	4	0.05
	5	0.46
	6	0
	7	0
	8	0
	9	0
	10	5.13
	11	5.13
	12	0.33
	13	5.06
	14	5.06
	15	5.07
	16	5.14

symbol	Pin No.	DC Voltage[V]
I201	1	3.28
	2	3.28
	3	3.39
	4	3.28
	5	3.28
	6	0
	7	3.28
	8	0.03
	9	0
	10	0
	11	0
	12	3.28
	13	0
	14	0
	15	0
	16	0
	17	3.28
	18	3.28
	19	0
	20	0
	21	0
	22	0
	23	0
	24	3.28
	25	0
	26	0
	27	0
	28	0
	29	0
	30	3.28
	31	3.28
	32	3.28
	33	3.28

symbol	Pin No.	DC Voltage[V]
I203	1	2.92
	2	4.70-4.72
	3	3.28
	4	3.28
	5	3.39
	6	0
	7	0
	8	0
	9	5.07
	10	0
	11	0
	12	4.8-5.1
	13	0.15
	14	4.8-5.1
	15	4.4-4.7
	16	5.14

symbol	Pin No.	DC Voltage
I506	1	6.03
	2	6.02
	3	6.05
	4	0.13
	5	0
	6	6.02
	7	6.04
	8	5.99
	9	0.02
	10	0.02
	11	0.02
	12	8.44
	13	4.68
	14	4.86-4.88
	15	4.72
	16	2.89

TABLE OF CONTENTS

14. AVC DC VOLTAGE TABLES

symbol	Pin No.	DC Voltage[V]
I3P2	1	5.66
	2	4.9
	3	5.67
	4	4.67
	5	4.99
	6	4.99
	7	0
	8	0
I503	1	0.29
	2	6.19
	3	6.05
	4	0.13
	5	4.86
	6	0.02
	7	0
	8	0.02
	9	4.86
	10	4.86
	11	0.03
	12	4.62
	13	0.28
	14	4.99
I102	1	0.02
	2	5
	3	5
	4	4.93
	5	0.15
	6	0
	7	4.86
	8	0.07
	9	0.06
	10	5
	11	5
	12	4.85
	13	0.06
	14	0
	15	4.94
	16	5
I260	1	0.04
	2	0.04
	3	5.2
	4	5.4
	5	0.15
	6	0
	7	0
	8	0
	9	0.01
	10	0
	11	0
	12	0.14
	13	0.24
	14	0.24
	15	0.24
	16	8.99

symbol	Pin No.	DC Voltage[V]
IP04	1	0.01
	2	5.69
	3	0
	4	0
	5	0
	6	0
	7	0
	8	0

symbol	Pin No.	DC Voltage[V]
I5P1	1	4.43
	2	9.97
	3	0
	4	9
	5	9

symbol	Pin No.	DC Voltage[V]
I404	1	9.5
	2	9.55
	3	8.72
	4	1.29
	5	0
	6	0
	7	0
	8	0
I401	1	4.45
	2	4.45
	3	4.45
	4	4.45
	5	4.45
	6	4.45
	7	4.45
	8	4.45
	9	4.45
	10	4.45
	11	4.45
	12	4.45
	13	4.45
	14	4.45
	15	4.45
	16	4.45
	17	4.45
	18	4.45
	19	4.49
	20	0
	21	0
	22	3.97-4.62
	23	3.97-4.62
	24	4.41
	25	4.41
	26	4.41
	27	0.05
	28	0.04
	29	4.41
	30	4.41
	31	8.86
	32	8.86
	33	4.45
	34	4.45
	35	4.45
	36	4.45
I505	1	6.04
	2	6.04
	3	6.04
	4	0.13
	5	0
	6	6.02
	7	6.05
	8	6
	9	0.08
	10	0.08
	11	0.08
	12	8.85
	13	4.7
	14	4.7
	15	4.7
	16	2.89

symbol	Pin No.	DC Voltage[V]
IP03	1	0
	2	0
	3	5.69
	4	4.94-5.13
	5	0.01
	6	0.05

symbol	Pin No.	DC Voltage[V]
I002	1	0
	2	0
	3	0
	4	5.14
	5	5.14

symbol	Pin No.	DC Voltage[V]
I001	1	4.95
	2	5.07
	3	5.07
	4	0
	5	0
	6	0
	7	2.29
	8	0
	9	0
	10	0
	11	0
	12	5.14
	13	2.56
	14	0
	15	2.48
	16	5.08
	17	5.11
	18	0
	19	5.11
	20	0.01
	21	4.3
	22	5.07
	23	0
	24	0.9
	25	5.07
	26	0
	27	0.01
	28	0
	29	4.74
	30	4.82-5.13
	31	5.7
	32	5.06
	33	5.13
	34	0
	35	5.08
	36	5.15
	37	4.8-5.2
	38	4.8-5.2
	39	5.13
	40	5.13
	41	0
	42	4.9
	43	0
	44	4.4-4.8
	45	4.4-4.8
	46	5.15
	47	0
	48	0
	49	0
	50	0
	51	4.6-5.1
	52	4.8-5.02
	53	4.8-5.02
	54	4.8-5.02
	55	5.08
	56	0
	57	5.06
	58	5.09
	59	5.09
	60	5.08
	61	0
	62	5.09
	63	0
	64	0
	65	4.8-5.2
	66	4.8-5.2
	67	0
	68	0.1
	69	0.1
	70	0
	71	0
	72	5.08
	73	0
	74	0
	75	0
	76	0
	77	0.01
	78	5.13
	79	4.8-5.2
	80	4.8-5.2
	81	5.11
	82	5.11
	83	0.03
	84	0.03
	85	5.07
	86	5.07
	87	5.07
	88	0
	89	5.07
	90	5.07
	91	5.07
	92	2.92
	93	2.81
	94	5.13
	95	0
	96	0
	97	0
	98	5.14
	99	5.14
	100	5.06

symbol	Pin No.	DC Voltage[V]
I101	1	0.17-0.39
	2	1.38
	3	0.01
	4	0.01
	5	0.01
	6	0.01
	7	0.01
	8	0
	9	0
	10	0
	11	0
	12	3.3
	13	1.69
	14	0
	15	1.64
	16	3.3
	17	0.02
	18	3.29
	19	0.01
	20	0.01
	21	0.01
	22	0.01
	23	0.01
	24	0.01
	25	0.01
	26	0.01
	27	0.01
	28	0.01
	29	4.32-4.86
	30	4.21-4.7
	31	0.49
	32	0.01
	33	0.01
	34	0.01
	35	0.4
	36	0.28
	37	3.3
	38	0.12
	39	0.01
	40	0.01
	41	0
	42	0.02
	43	0.01
	44	0.01
	45	0.02
	46	3.3
	47	0.02
	48	0.01
	49	0.01
	50	0.02
	51	0.01
	52	0.01
	53	0.02
	54	0.02
	55	0.02
	56	0.02
	57	0.02
	58	0.01
	59	0.02
	60	0.02
	61	0.01
	62	0.12
	63	0.01
	64	3.31
	65	0.01
	66	0.01
	67	0.01
	68	0.01
	69	0.01
	70	0.01
	71	0
	72	0
	73	0
	74	0.01
	75	0.01
	76	0.01
	77	0.01
	78	0.01
	79	0.01
	80	0.01

14. AVC DC VOLTAGE TABLES

symbol	Pin No.	DC Voltage[V]
IJ03	1	3.36
	2	0
	3	0.03
	4	0.03
	5	0
	6	3.36
	7	0
	8	3.36
	9	0
	10	0
	11	3.36
	12	0
	13	0.03
	14	3.36
	15	0
	16	3.35
	17	0
	18	0
	19	3.35
	20	0
	21	0.13
	22	0
	23	3.36
	24	3.36
	25	0.03
	26	0
	27	0
	28	0
	29	0
	30	0
	31	0
	32	0
	33	0
	34	0
	35	0
	36	0
	37	0
	38	0
	39	0
	40	3.35
	41	0
	42	0
	43	0
	44	0
	45	0
	46	0
	47	3.36
	48	0
	49	0
	50	0
	51	0
	52	0
	53	0
	54	0
	55	0
	56	3.36
	57	0
	58	0
	59	0
	60	0
	61	0
	62	0
	63	0
	64	0
	65	3.35
	66	0
	67	0
	68	3.36
	69	0
	70	0
	71	0.03
	72	3.36
	73	0
	74	2.9-3.4
	75	2.7-3.4
	76	3.2
	77	3.2
	78	0
	79	0
	80	0.03
	81	3.36
	82	3.36
	83	0.05
	84	3.36
	85	0
	86	3.36
	87	3.36
	88	0
	89	3.36
	90	0
	91	3.36
	92	3.36
	93	3.36
	94	0
	95	3.36
	96	3.36
	97	3.36
	98	0
	99	0
	100	3.35

symbol	Pin No.	DC Voltage
IJ05	1	0
	2	0
	3	0
	4	0
	5	0.01
	6	4.79
	7	2.49
	8	2.5
	9	0
	10	2.49
	11	0
	12	0
	13	0
	14	0.03
	15	0
	16	0
IJ04	1	0
	2	0
	3	0
	4	0
	5	0
	6	3.36
	7	0
	8	0
	9	0.03
	10	0
	11	0.03
	12	0
	13	0
	14	0
	15	0
	16	3.36
IJ01	1	0
	2	0
	3	0
	4	0
	5	4.76
	6	4.76
	7	4.78
	8	4.78
IJ11	1	4.98
	2	4.98
	3	4.98
	4	0
	5	4.98
	6	4.98
	7	4.98
	8	8.98
IJ06	1	4.98
	2	4.98
	3	4.98
	4	0
	5	4.98
	6	4.98
	7	4.98
	8	8.98
IJ07	1	0
	2	0
	3	0
	4	0
	5	4.75
	6	4.75
	7	4.77
	8	4.77
IJ02	1	0.01
	2	0
	3	0
	4	3.36
	5	3.36
IJ08	1	0.04
	2	0
	3	0
	4	3.36
	5	3.36

14. AVC DC VOLTAGE TABLES

symbol	Pin No.	DC Voltage[V]
IV01	1	3.19
	2	0
	3	1.26
	4	2.49
	5	3.3
IV03	1	0.03
	2	0
	3	0
	4	3.3
	5	3
IV250	1	6.68
	2	8.38
	3	2.45
	4	4.17
	5	-2.87
	6	-6.24
	7	-6.24
	8	0.07
	9	5.06
	10	4.3
	11	5.07
	12	5.06
	13	0.07
	14	-1.62
	15	0
	16	0.02
IV06	1	5.24
	2	0
	3	4.63
	4	0
	5	4.66
	6	2.68
	7	0
	8	3.41
	9	3.16
	10	0
	11	5.35
	12	0
	13	8.84
	14	5.25
	15	0
	16	5.3
IV08	1	8.92
	2	2.42
	3	8.15
	4	2.43
	5	0.04
	6	2.41
	7	0.05
	8	4.67
	9	6.28
	10	5.1
	11	0
	12	0
	13	4.98-5.14
	14	4.98-5.04
	15	0.13-0.24
	16	2.42
	17	0.45
	18	0
	19	2.42
	20	1.92
	21	3.96
	22	3.57
	23	3.57
	24	3.7
	25	4.86
	26	2.88
	27	0
	28	2.22
	29	2.22
	30	2.41
I933	1	0
	2	16.98
	3	16.98
	4	3.31
	5	3.31
	6	0
	7	5.43
	8	16.98
	9	16.98
	10	0
	11	0
	12	1.85

symbol	Pin No.	DC Voltage[V]
IV04	1	0
	2	2.18
	3	2.73
	4	2.35
	5	1.29
	6	0
	7	0
	8	4.93
	9	0
	10	2.27
	11	2.09
	12	3.3
	13	3.74
	14	1.57
	15	3.5-3.53
	16	4.85
IV09	1	5.23
	2	0
	3	4.64
	4	0
	5	4.66
	6	2.7
	7	0
	8	3.43
	9	3.16
	10	0
	11	5.34
	12	0
	13	8.85
	14	5.24
	15	0
	16	5.3
IV12	1	8.92
	2	2.44
	3	8.16
	4	2.44
	5	0.04
	6	2.41
	7	0.05
	8	4.65
	9	6.27
	10	5.11
	11	0
	12	8.91
	13	4.9-5.13
	14	4.9-5.06
	15	0.13-0.24
	16	2.42
	17	0.45
	18	0
	19	2.43
	20	1.87
	21	3.96
	22	3.63
	23	3.63
	24	3.8
	25	4.86
	26	2.86
	27	0
	28	2.22
	29	2.22
	30	2.42
I5H1	1	0.13
	2	0.13
	3	0.08
	4	0.01
	5	0.01
	6	0.02
	7	0
	8	0
	9	0
	10	0.02
	11	0
	12	0.02
	13	0.02
	14	0.02
	15	1.13
	16	0.02
I3P1	1	5.08
	2	0
	3	1.28
	4	5.67
	5	4.99

symbol	Pin No.	DC Voltage[V]
I501	1	0.13
	2	4
	3	4.3-4.6
	4	4.3-4.6
	5	3.84
	6	0.31
	7	4
	8	0.11-0.23
	9	4
	10	3.21
	11	0
	12	5.04
	13	0.1
	14	3.75
	15	0.65-2.58
	16	0.1
	17	0.11-0.19
	18	3.63
	19	0.28
	20	3.88-3.93
	21	0
	22	3.42
	23	0.04
	24	3.42
	25	4
	26	3.07
	27	4.98
	28	3.57
	29	0
	30	3.51
	31	0
	32	3.59
	33	0
	34	3.51
	35	4.98
	36	3.64
	37	0.04
	38	3.58
	39	8.94
	40	3.63
	41	0.12
	42	4.16
	43	0.12
	44	4.08
	45	4.84
	46	3.91
	47	0.53
	48	3.91
	49	0
	50	3.91
	51	0.53
	52	3.92
	53	4.83
	54	3.92
	55	0.53
	56	4.12
	57	4.83
	58	4.18
	59	0.53
	60	4.26
	61	4.83
	62	0.04
	63	0.31
	64	4.19
	65	0.11-0.23
	66	4.26
	67	0.31
	68	4.08
	69	0.11-0.25
	70	4.16
	71	8.94
	72	3.88
	73	0.13
	74	4.01
	75	0.13
	76	4.01
	77	4.96
	78	3.88
	79	0.13
	80	4

symbol	Pin No.	DC Voltage[V]
I502	1	0.36
	2	4.06
	3	4.2-4.6
	4	42.-4.4
	5	4.27
	6	0.31
	7	4.05
	8	0.11-0.23
	9	4.05
	10	3.22
	11	0
	12	5
	13	2.79
	14	3.77
	15	0.64-2.84
	16	3.5
	17	0.1-0.15
	18	3.5
	19	0.29
	20	3.86
	21	0
	22	3.92
	23	0.14-0.21
	24	3.8
	25	0.31
	26	3.86
	27	4.98
	28	3.71
	29	0
	30	3.64
	31	0
	32	3.71
	33	0
	34	3.64
	35	0
	36	3.75
	37	0.06
	38	3.69
	39	8.94
	40	3.45
	41	0.36
	42	4.28
	43	0.36
	44	4.21
	45	4.84
	46	4.03
	47	0.69
	48	4.03
	49	0.26
	50	4.03
	51	0.68
	52	4.03
	53	4.83
	54	4.04
	55	0.68
	56	4.23
	57	4.83
	58	4.29
	59	0.69
	60	4.04
	61	4.83
	62	4.25
	63	0.36
	64	4.3
	65	0.36
	66	4.28
	67	0.31
	68	4.2
	69	0.11-0.23
	70	4.28
	71	8.94
	72	3.96
	73	0.36
	74	4.09
	75	0.36
	76	4.09
	77	4.96
	78	3.95
	79	0.36
	80	4.06

symbol	Pin No.	DC Voltage
IV02	1	0.03
	2	0
	3	0
	4	0
	5	0
	6	3.3
	7	3.3
	8	0
	9	0
	10	0
	11	0
	12	0
	13	0.06
	14	0
	15	0
	16	0
	17	0
	18	0
	19	0
	20	0
	21	0
	22	0
	23	0
	24	0
	25	0
	26	2.38
	27	2.38
	28	0
	29	0
	30	0
	31	3.3
	32	0
	33	0
	34	0
	35	0
	36	1.14
	37	1.15
	38	2.38
	39	2.42
	40	0
	41	0
	42	0
	43	0
	44	0
	45	0
	46	3.18-3.26
	47	3.18-3.26
	48	0
	49	0
	50	2.38
	51	1.37
	52	0
	53	0
	54	1.23
	55	2.38
	56	0
	57	3.29
	58	0.11
	59	0.11
	60	0
	61	0
	62	2.42
	63	0
	64	0
	65	0
	66	0
	67	0
	68	0
	69	0
	70	0
	71	0
	72	0
	73	0
	74	0
	75	0
	76	0
	77	2.88
	78	0
	79	0
	80	0
	81	0
	82	0
	83	0
	84	0
	85	0
	86	2.38
	87	1.04
	88	1.39
	89	1.31
	90	1.04
	91	0
	92	0
	93	0.98
	94	0.62
	95	0.71
	96	1.19
	97	1.05
	98	2.38
	99	0
	100	2.42

14. AVC DC VOLTAGE TABLES

symbol	Pin No.	DC Voltage[V]	symbol	Pin No.	DC Voltage[V]	symbol	Pin No.	DC Voltage[V]
Q070	E	0.02	Q507	E	1.56	QV21	E	2.2
	B	0.67		B	2.14		B	2.38
	C	0.03		C	8.86		C	8.75
						QV33	E	4.42
Q0F1	E	0	Q508	E	0.98		B	5.03
	B	0		B	1.56		C	8.84
	C	5.14		C	8.86			
						QV34	E	0
Q100	E	3.3	Q510	E	0.64		B	0.64
	B	0		B	0.04		C	0.02
	C	0		C	0	QV39	E	3.5
							B	4.18
Q150	E	0	Q511	E	0.63		C	8.85
	B	0.06		B	0.02			
	C	3.31		C	0	QV40	E	1.6
							B	2.17
Q170	E	4.7	Q512	E	0.63		C	QV06
	B	5.3		B	0.02			
	C	9		C	0	QV43	E	3.06
							B	3.76
Q180	E	4.2	Q513	E	1.88		C	4.95
	B	5.2		B	2.46			
	C	9		C	8.85	QV44	E	2.95
							B	QV07
Q201	E	3.28	Q514	E	1.15		C	4.95
	B	0		B	1.72			
	C	0		C	8.84	QV45	E	3.18
							B	3.79
Q203	E	3.28	Q516	E	5.04		C	4.95
	B	3.25		B	3.8			
	C	0.03		C	8.94	QV47	E	QV09
							B	3.57
Q204	E	3.29	Q517	E	5.01		C	4.95
	B	3.25		B	3.8			
	C	0.01		C	8.94	QV48	E	3.02
							B	3.62
Q230	S	3.28	Q5H1	E	0.03		C	4.96
	D	2.98		B	5.09			
	B	3.29		C	0.01	QV49	E	3.01
							B	3.62
Q260	E	0	Q5N1	E	4.12		C	4.95
	B	5.06		B	4.76			
	C	0.01		C	8.85	QX01	E	3.48
							B	2.88
Q261	E	6	Q5N2	E	4.27		C	0
	B	5.4		B	4.87			
	C	0		C	8.85	QX02	E	0.31
							B	0.45
Q262	E	5.85	Q5N3	E	2.74		C	4.86
	B	6		B	3.33			
	C	0.5		C	8.89	QX03	E	0.11-0.26
							B	0.13-0.23
Q263	E	4.3	Q5T1	E	4.1		C	4.99
	B	0.09		B	4.7			
	C	0		C	8.85	QX04	E	0
							B	0.51
Q280	E	0	Q5T2	E	4.1		C	0.13
	B	0.65		B	4.68			
	C	0.05		C	8.85	QX11	E	3.45
							B	2.87
Q281	E	0	Q5T3	E	2.75		C	0
	B	0.04		B	3.33			
	C	5.14		C	8.85	QX12	E	0.31
							B	0.42
Q283	E	0.04	Q930	E	0		C	4.48
	B	0.62		B	0.78			
	C	0		C	0	QX13	E	0.11-0.20
							B	0.13-0.24
Q284	E	5	Q931	E	0.03		C	4.99
	B	0.04		B	0			
	C	0		C	0	QX14	E	0.03
Q304	E	3.39					B	0.51
	B	2.84	Q932	E	0.05		C	0.15
	C	0.02		B	0.05			
				C	0.06	QX15	E	2.05
Q305	E	2.82					B	2.68
	B	3.43	Q934	E	5.23		C	8.99
	C	4.93		B	5.24			
				C	0	QX16	E	4.05
Q306	E	2.39					B	4.66
	B	2.36	Q935	E	0.04		C	8.99
	C	0		B	0			
				C	0	QX17	E	4.01
Q311	E	0.01					B	4.06
	B	0.01	Q936	E	0.06		C	8.99
	C	0.03		B	0.05			
				C	0	QX18	E	2.11
Q313	E	0.01					B	2.71
	B	0.01	Q937	E	0		C	8.89
	C	0.03		B	0.61			
				C	0	QX19	E	4.05
Q401	E	5.08	QA05	E	0.05		B	4.66
	B	0.03		B	5.07		C	8.99
	C	0		C	0			
						QX20	E	4.11
Q402	E	2.02	QA06	E	5.65		B	4.65
	B	0.61		B	0.04		C	8.99
	C	0		C	0			
						QX21	E	0.13
Q403	E	4.33	QA07	E	0.05		B	0.14
	B	3.74		B	4.44		C	4.86
	C	0		C	0			
						QX22	E	0.13
Q405	E	4.31	QA08	E	8.34		B	0.14
	B	3.71		B	8.95		C	4.86
	C	0		C	0			
Q407	E	4.35	QA09	E	2.42			
	B	3.75		B	1.85			
	C	0		C	0			
Q408	E	4.08	QV13	E	3.55			
	B	3.72		B	2.95			
	C	0		C	0			
Q409	E	0	QV15	E	1.92			
	B	0		B	1.31			
	C	0		C	0			
Q411	E	0	QV16	E	3.54			
	B	0		B	2.98			
	C	0		C	0			
Q423	E	4.31	QV17	E	1.99			
	B	3.72		B	1.39			
	C	0		C	0			
Q424	E	3.68	QV18	E	5.2			
	B	4.3		B	5.84			
	C	8.9		C	8.84			
Q425	E	3.68	QV19	E	2.9			
	B	4.31		B	3.59			
	C	8.89		C	8.85			
Q501	E	3.15	QV20	E	3.14			
	B	3.76		B	3.74			
	C	8.95		C	8.84			
Q502	E	3.03						
	B	3.64						
	C	8.95						
Q503	E	3.27						
	B	3.9						
	C	8.95						
Q504	E	2.91						
	B	3.5						
	C	8.94						
Q505	E	2.9						
	B	3.52						
	C	8.94						
Q506	E	3.25						
	B	3.84						
	C	8.94						

14. AVC DC VOLTAGE TABLES

DC Voltage[V]		symbol	Pin No.	DC Voltage[V]		symbol	Pin No.	DC Voltage[V]
3.8		Q308	1	0		Q001	1	0.2
4.41			2	0.06			2	0.58
9			3	0.03			3	2.64
3.81			4	0			4	0.2
4.42			5	0.03			5	0.36
9			6	0.03			6	2.29
3.82		Q002	1	3.52		Q282	1	0
0.02			2	3.29			2	0.61
8.82			3	3.52			3	0.06
3.84			4	5.15			4	0
4.44			5	0			5	0.61
8.82			6	0			6	0.05
3.84		Q0L1	1	4.44		Q509	1	2.47
0.03			2	5.08			2	3.07
4.67			3	5			3	0
9			4	4.44			4	1.93
8.23			5	5			5	1.34
8.23			6	5.15			6	8.85
3.84		Q0K1	1	0.02		Q515	1	3.28
4.44			2	0.03			2	3.88
4.68			3	5			3	0
9			4	0			4	2.74
8.32			5	0			5	1.33
8.32			6	5			6	0.07
2.89		QV26	1	4.19		QV27	1	1.83
8.76			2	4.26			2	2.41
8.9			3	5.04			3	5.83
0.08			4	8.84			4	8.84
0.08			5	8.28			5	8.24
0.08			6	8.28			6	8.24
8.91		QV36	1	2.17		QV05	1	2.94
5.89			2	2.75			2	3.12
8.91			3	2.17			3	0.04
5.89			4	8.85			4	2.79
5.3			5	8.25			5	2.17
5.25			6	8.25			6	8.9
8.29		QV22	1	8.84		QV06	1	3.3
8.29			2	3.97			2	3.25
8.91			3	8.84			3	3.3
5.89			4	0.49			4	4.9-5.09
3.97			5	3.2			5	3.21
3.4			6	3.82			6	4.9-5.09
0		QV35	1	8.26		QV07	1	3.33
0			2	8.26			2	3.92
0.03			3	8.85			3	5.73
0			4	4.18			4	8.85
0.03			5	4.76			5	8.24
0			6	4.18			6	8.24
0		Q160	1	0		QV09	1	5.14
0.02			2	0.04			2	5.76
0.02			3	4.97			3	8.85
0			4	5			4	5.14
0.01			5	0.01			5	5.76
0.02			6	0.01			6	8.85

14. AVC DC VOLTAGE TABLES

symbol	Pin No.	DC Voltage[V]
QJ25	E	0
	B	4.41
	C	0
QJ19	E	0
	B	0
	C	3.36
QJ16	E	0
	B	0
	C	3.36
QJ17	E	3.36
	B	3.36
	C	0.06
QJ18	E	0
	B	0
	C	0
QJ20	E	3.36
	B	3.36
	C	0
QJ21	E	0
	B	0
	C	0
QJ27	E	0
	B	0.03
	C	2.72
QJ28	E	0
	B	2.72
	C	0.19
QJ33	E	0
	B	0.04
	C	3.36
QJ15	E	0
	B	0
	C	4.75
QJ04	E	0
	B	0
	C	3.36
QJ06	E	0
	B	0
	C	0
QJ07	E	0
	B	0
	C	3.36
QJ08	E	3.36
	B	3.36
	C	0.04
QJ09	E	0.05
	B	0.05
	C	0

symbol	Pin No.	DC Voltage[V]
QJ30	E	0
	B	0.03
	C	2.75
QJ31	E	0
	B	2.75
	C	0.01
	E	
	B	
	C	
QJ13	E	0
	B	0.07
	C	4.83
QJ22	E	0.65
	B	0
	C	0
QJ24	E	0.65
	B	0
	C	0
QJ23	E	0.65
	B	0
	C	0
QJ10	E	0.65
	B	0
	C	0
QJ12	E	0.65
	B	0
	C	0
QJ11	E	0.65
	B	0.04
	C	0
QJ32	E	0
	B	0.05
	C	3.36
QJ03	E	0
	B	0.04
	C	4.73
QJ01	E	0
	B	0.03
	C	4.77

symbol	Pin No.	DC Voltage[V]
QJ29	1	3.36
	2	2.9-3.3
	3	3.36
	4	4.9-5.13
	5	2.6-3.3
	6	4.1-5.3
QJ26	1	3.36
	2	2.9-3.2
	3	3.36
	4	4.9-5.2
	5	2.9-3.3
	6	4.8-5.0
QJ14	1	3.36
	2	3.21
	3	3.36
	4	4.75
	5	3.21
	6	4.75
QJ02	1	3.36
	2	3.21
	3	3.36
	4	4.75
	5	3.2
	6	4.75

14. AVC DC VOLTAGE TABLES

No.	name	DC Voltage[V]
1	T X 2 -	0_0.06
2	T X 2 +	0_0.01
3	T X 2 Shield	0
4	NC	0
5	NC	0
6	SCLH	0
7	SDAH	0_0.02
8	NC	0_0.02
9	T X 1 -	0_0.12
10	T X 1 +	0_0.28
11	T X 1 Shield	0
12	NC	0
13	NC	0
14	AVDET	5.13
15	GND	0
16	HPDET	0
17	T X 0 -	0_0.08
18	T X 0 +	0_0.26
19	T X 0 Shield	0
20	NC	0
21	NC	0
22	T X C Shield	4.87_4.92
23	T X C +	4.87_4.92
24	T X C -	0.02

No.	name	DC Voltage[V]
1	TXDO	0
2	RXDO	-10.19
3	PARITY	0
4	REM PDP	0.11
5	AUDIO L	0
6	AUDIO R	5.13
7	PDDET	0.07
8	AVDET2	0

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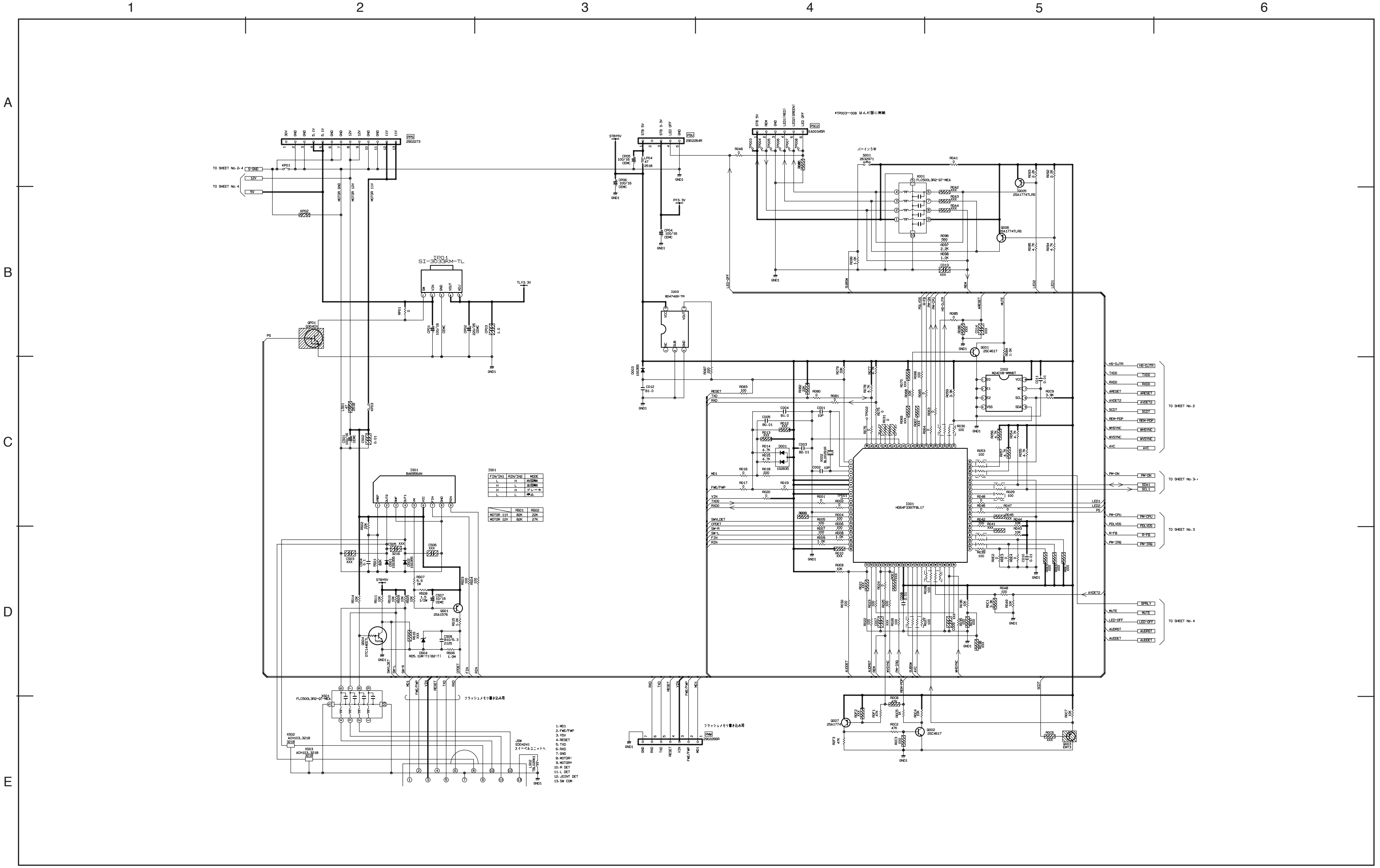
BASIC CIRCUIT DIAGRAM


1
2
3
4
5
6
A
B
C
D
E
IR01
SI-3033KM-TL
IS01
BA6956AN
IC09
BD4742G-TR
I001
HD64F3397FBL17
I002
M24C08-WMN6T
Q001
2SC4617
X002
BL00291R
D001
1S2835
TO SHEET No.2
TO SHEET No.3
TO SHEET No.4
HS-DJTR
TXD0
RXD0
ARESET
AVDET2
SCDT
REM-PDP
WHSYNC
WVSYNC
AVC
PM-ON
PM-CPU
PDLVDS
R-FB
PM-IRQ
MUTE
LED-OFF
AUDRST
AUDDET
MD1
FWE/FWP
VIN
SWVLDET
CPDET
SW-R
SW-L
FIN
RIN
RESET
TXD
RXD
LED1
LED2
PS
GND1
STB5V
TL P3.3V

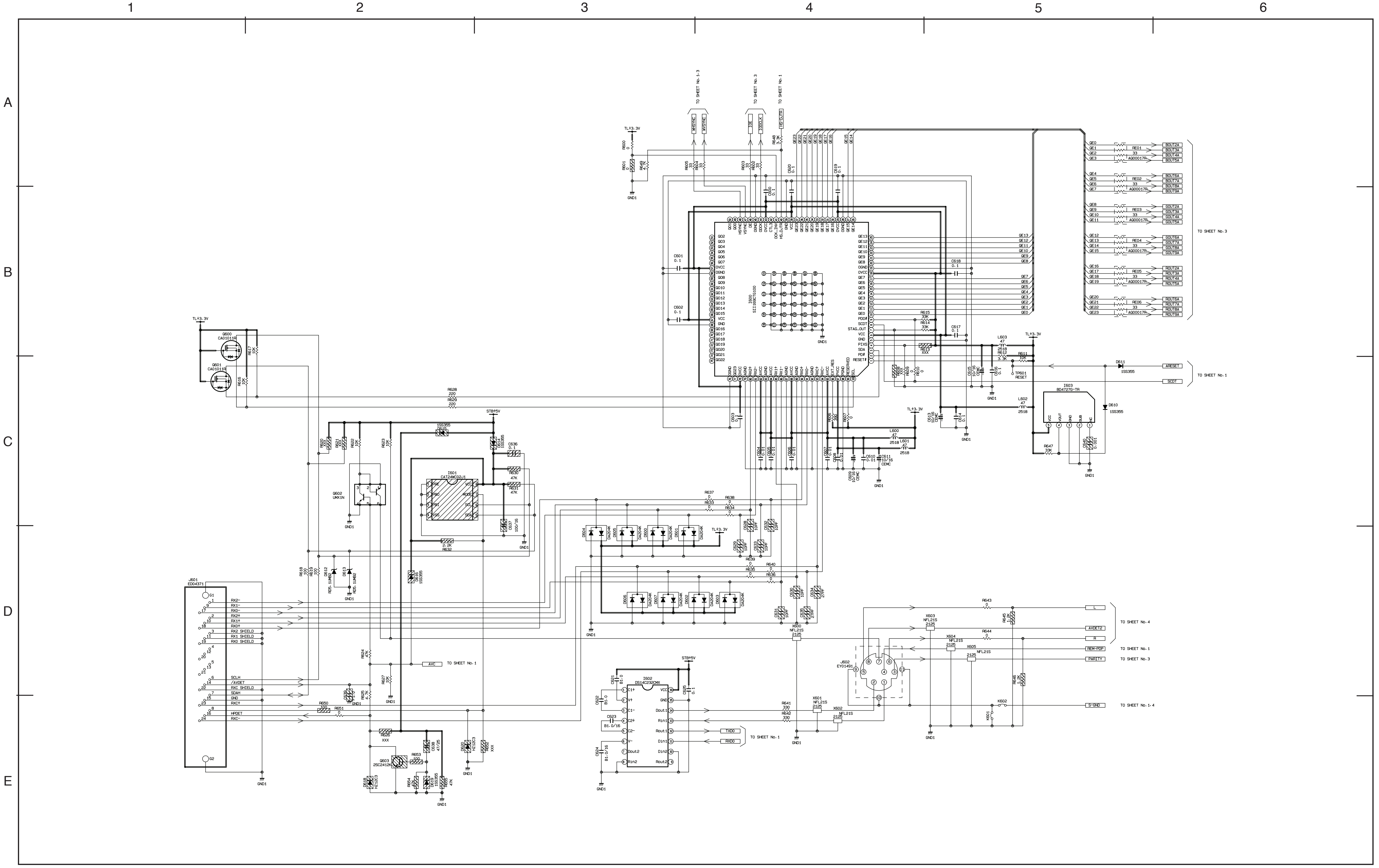
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Signal 1 of 4 (MONITOR)

TABLE OF CONTENTS

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

BASIC CIRCUIT DIAGRAM


1
2
3
4
5
6
A
B
C
D
E
TO SHEET No-1-3
TO SHEET No-3
TO SHEET No-1
TO SHEET No-4
TO SHEET No-1-4
TL+3.3V
STB+5V
GND1
IC601
IC602
DS14C232CMX
IC603
BD4727G-TR
J601
J602
Q600
Q601
Q602
Q603
AVC
TXD0
RXD0
RESET
S-GND

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Signal 2 of 4 (MONITOR)

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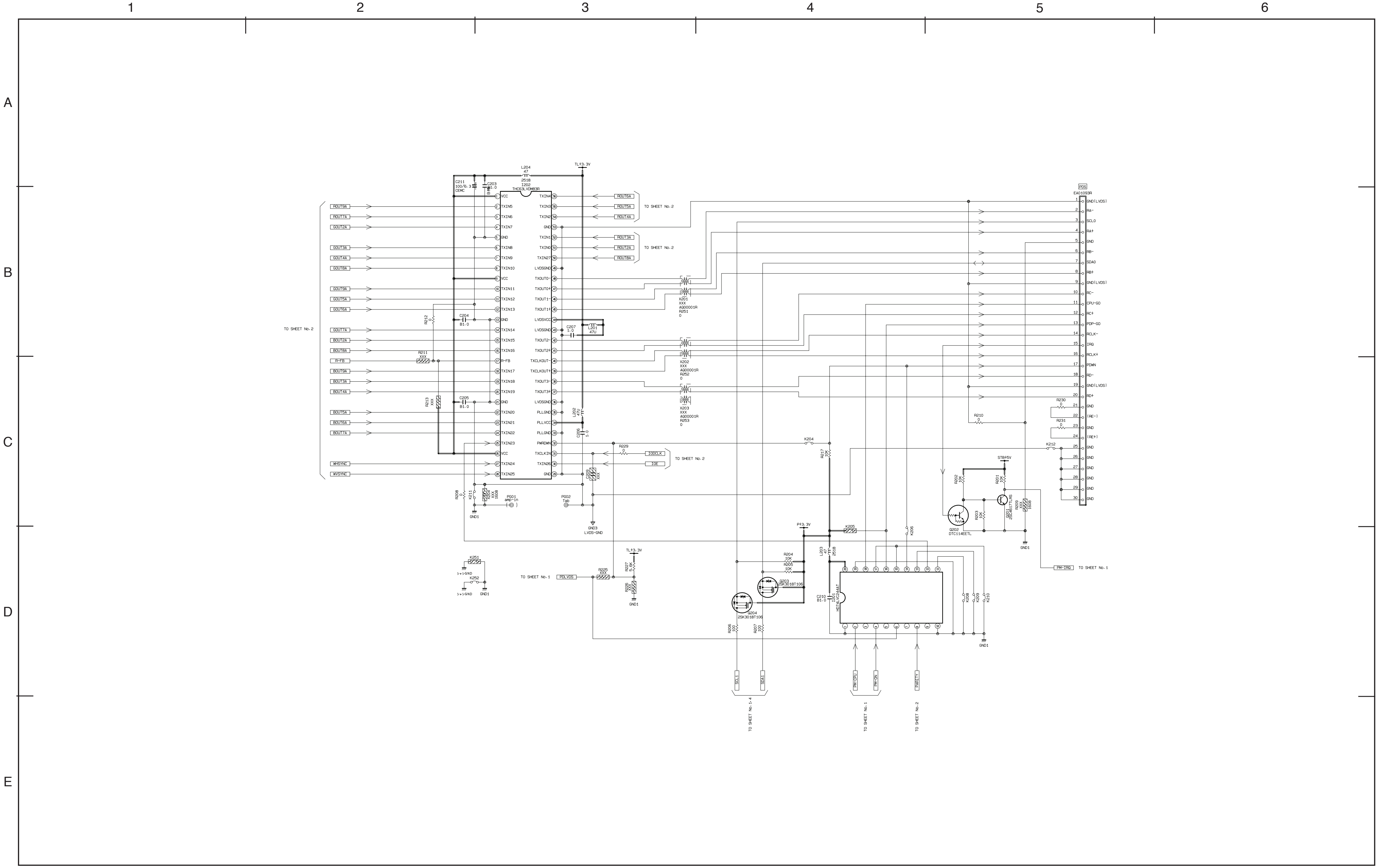
BASIC CIRCUIT DIAGRAM


1
2
3
4
5
6
A
B
C
D
E
I202
THC63LVDM83R
L204
47
2518
TL+3.3V
C211
100/6.3
CEMC
C203
B1.0
VCC
TXIN5
TXIN6
TXIN7
GND
TXIN8
TXIN9
TXIN10
TXIN11
TXIN12
TXIN13
TXIN14
TXIN15
TXIN16
R-FB
TXIN17
TXIN18
TXIN19
TXIN20
TXIN21
TXIN22
TXIN23
TXIN24
TXIN25
TXIN4
TXIN3
TXIN2
TXIN1
TXIN0
TXIN27
LVDSGND
TXOUT0-
TXOUT0+
TXOUT1-
TXOUT1+
LVDSVCC
TXOUT2-
TXOUT2+
TXCLKOUT-
TXCLKOUT+
TXOUT3-
TXOUT3+
PLLGND
PLLVCC
PWRDWN
TXCLKIN
TXIN26
ROUT9A
ROUT7A
GOUT2A
GOUT3A
GOUT4A
GOUT8A
GOUT9A
GOUT5A
GOUT6A
GOUT7A
BOUT2A
BOUT8A
R-FB
BOUT9A
BOUT3A
BOUT4A
BOUT5A
BOUT6A
BOUT7A
WHSYNC
WVSYNC
TO SHEET No.2
ROUT6A
ROUT5A
ROUT4A
ROUT3A
ROUT2A
ROUT8A
TO SHEET No.2
TO SHEET No.2
R212
0
C204
B1.0
R211
XXX
R213
XXX
C205
B1.0
C207
1.0
L201
47U
L202
47U
C206
1.0
R229
0
IODCLK
IOE
TO SHEET No.2
C209
XXX
R208
0
K211
X204
XXX
1608
PG01
amp-in
PG02
Tab
GND1
GND3
LVDS-GND
X201
XXX
AQ00001R
R251
0
X202
XXX
AQ00001R
R252
0
X203
XXX
AQ00001R
R253
0
K251
シャシGND
K252
シャシGND
GND1
TO SHEET No.1
PDLVDS
R225
XXX
R227
5.6K
R226
XXX
GND1
PDS
EA01093R
GND(LVDS)
RA-
SCL0
RA+
GND
RB-
SDA0
RB+
GND(LVDS)
RC-
CPU-GO
RC+
PDP-GO
RCLK-
IRQ
RCLK+
PDWN
RD-
GND(LVDS)
RD+
GND
(RE-)
GND
(RE+)
GND
GND
GND
GND
GND
GND
R230
0
R231
0
R210
0
K212
K204
R217
10K
TO SHEET No.2
STB+5V
R202
10K
R201
10K
R203
10K
Q201
2SC4617TLRS
R209
XXX
1608
Q202
DTC114EETL
GND1
PM-IRQ
TO SHEET No.1
P+3.3V
K205
K206
L203
47
2518
R204
10K
R205
10K
Q203
2SK3018T106
Q204
2SK3018T106
C210
B1.0
I201
HD74LVC244AT
K208
K209
K210
GND1
R206
100
R207
100
SCL1
SDA1
TO SHEET No.1,4
PM-CPU
PM-ON
TO SHEET No.1
PARITY
TO SHEET No.2

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Signal 3 of 4 (MONITOR)

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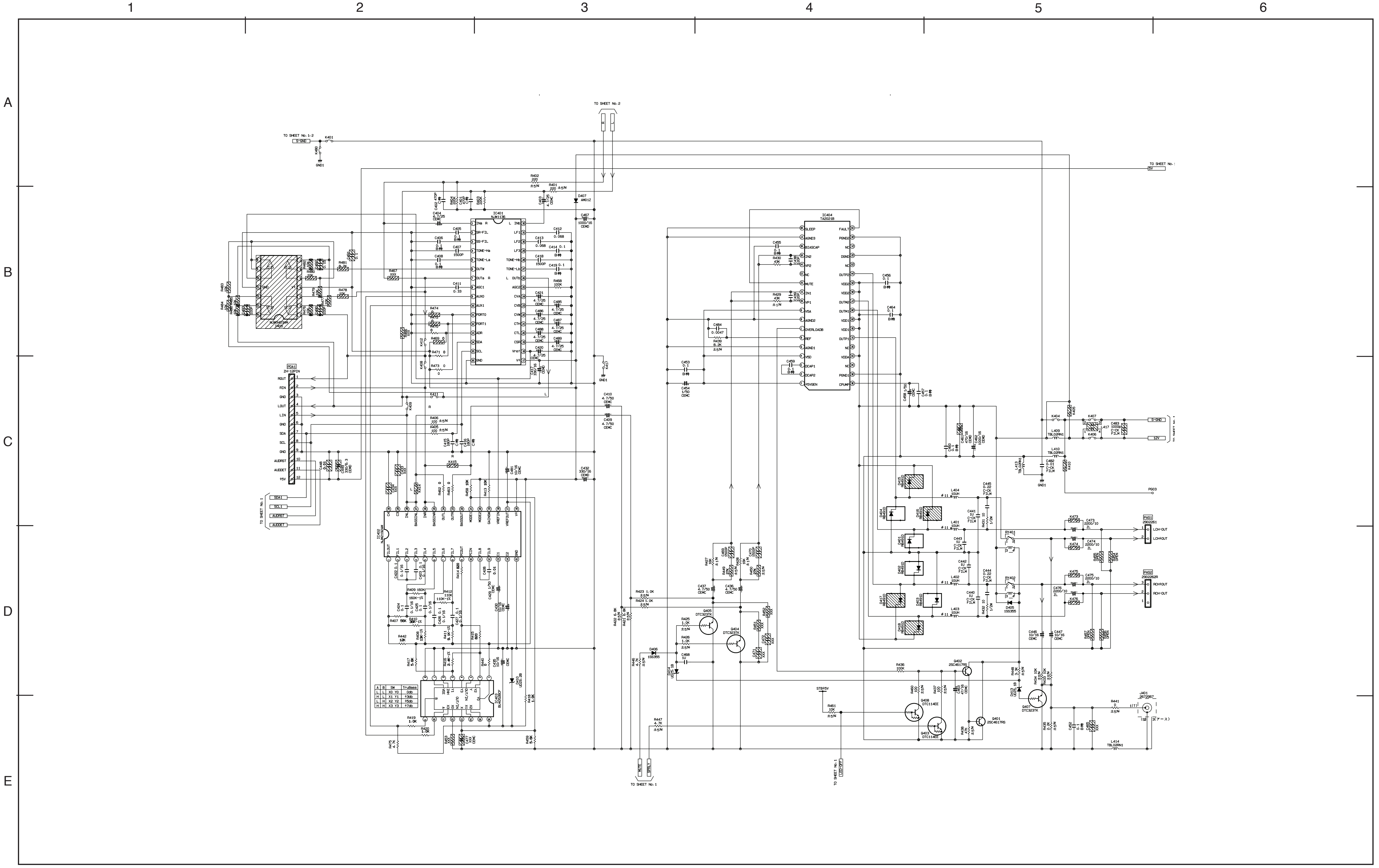
BASIC CIRCUIT DIAGRAM


1
2
3
4
5
6
A
B
C
D
E
TO SHEET No.2
TO SHEET No.1
IC401
IC402
IC404
TA2021B
LCH-OUT
RCH-OUT

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Signal 4 of 4 (MONITOR)

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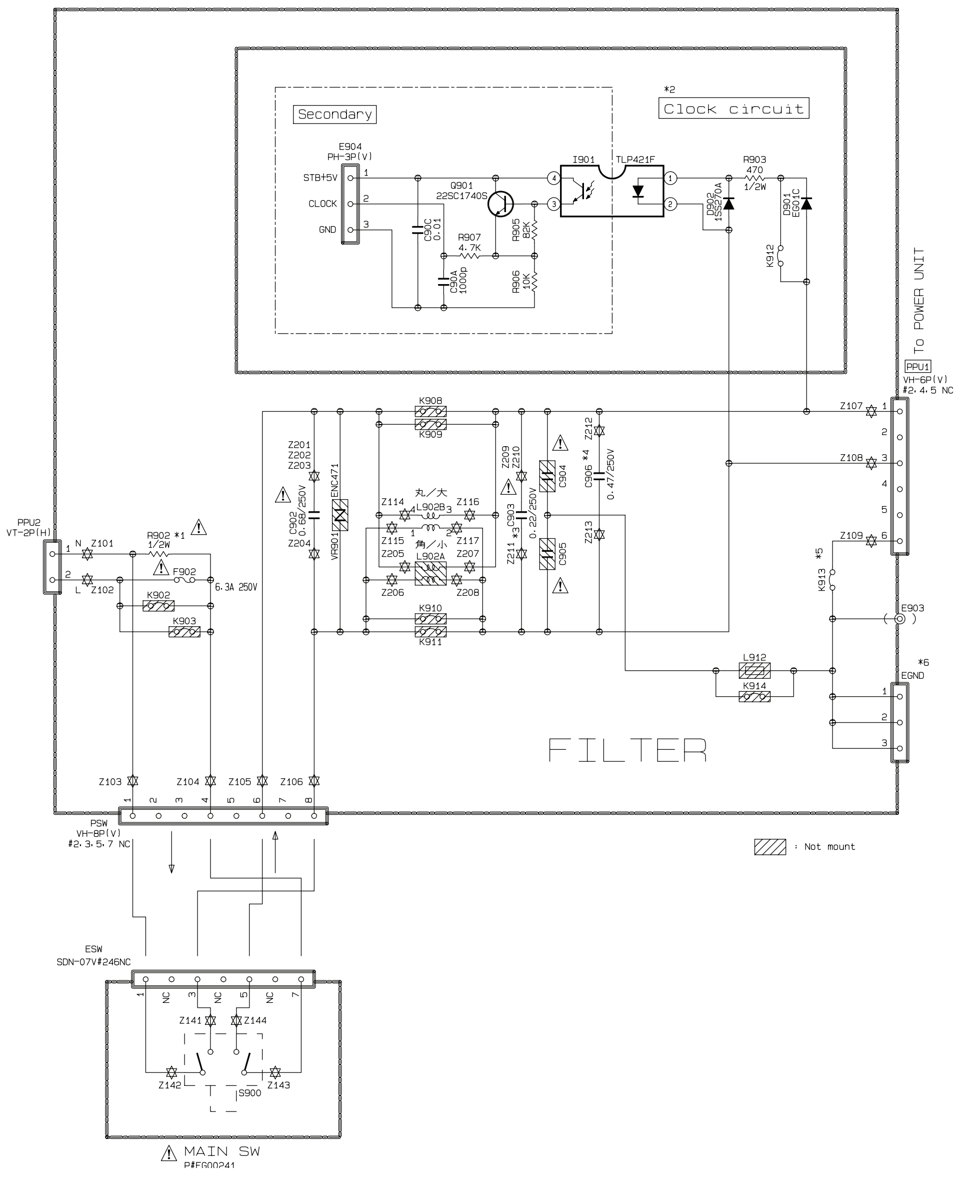
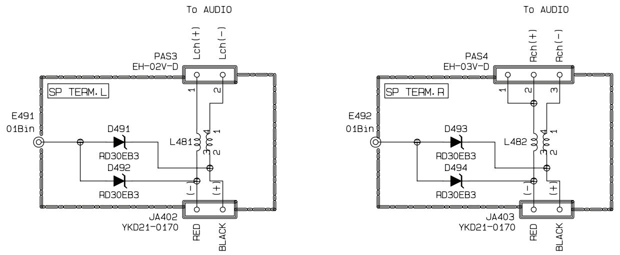
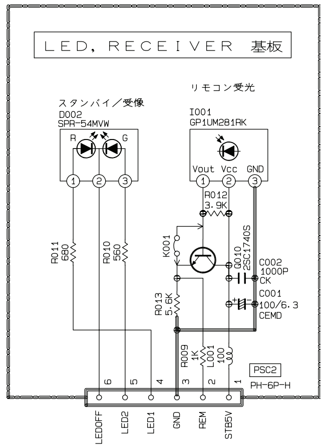
BASIC CIRCUIT DIAGRAM


1
2
3
4
5
6
A
B
C
D
E
Secondary
*2
Clock circuit
E904
PH-3P(V)
STB+5V
CLOCK
GND
Q901
22SC1740S
C90C
0.01
R907
4.7K
C90A
1000p
R905
82K
R906
10K
I901
TLP421F
R903
470
1/2W
D902
1SS270A
D901
EG01C
K912
To POWER UNIT
PPU1
VH-6P(V)
#2,4,5 NC
Z107
Z108
Z109
K908
K909
Z201
Z202
Z203
C902
0.68/250V
Z204
VR901
ENC471
Z114
Z115
Z205
Z206
丸／大
L902B
角／小
L902A
Z116
Z117
Z207
Z208
K910
K911
Z209
Z210
C903 *3
0.22/250V
Z211
C904
C905
Z212
C906 *4
0.47/250V
Z213
PPU2
VT-2P(H)
N
L
Z101
Z102
R902 *1
1/2W
F902
6.3A 250V
K902
K903
K913 *5
E903
L912
K914
*6
EGND
FILTER
Z103
Z104
Z105
Z106
PSW
VH-8P(V)
#2,3,5,7 NC
▨ : Not mount
ESW
SDN-07V#246NC
NC
Z141
Z144
Z142
Z143
S900
MAIN SW
P#EG00241


To AUDIO
Lch(+)
Lch(-)
PAS3
EH-02V-D
SP TERM.L
E491
01Bin
D491
RD30EB3
D492
RD30EB3
L481
(-)
(+)
JA402
YKD21-0170
RED
BLACK
To AUDIO
Rch(+)
Rch(-)
PAS4
EH-03V-D
SP TERM.R
E492
01Bin
D493
RD30EB3
D494
RD30EB3
L482
JA403
YKD21-0170
RED
BLACK

The difference table by the model

	42HDT51M/42HDX61M
*1 R902(1/2W)	470KΩ
*2 Clock circuit	Not mount
*3 C903	0.68/250V
*4 C906	Not mount
*5 K913	Not mount
*6 EGND	Not mount


LED, RECEIVER 基板
スタンバイ／受像
D002
SPR-54MVW
R
G
リモコン受光
I001
GP1UM281RK
Vout
Vcc
GND
R012
3.9K
R011
680
R010
560
K001
Q010
2SC1740S
C002
1000P
CK
C001
100/6.3
CEMD
R013
5.6K
R009
1K
L001
100
PSC2
PH-6P-H
LEDOFF
LED2
LED1
GND
REM
STB5V

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Filter 1 of 2 (MONITOR)

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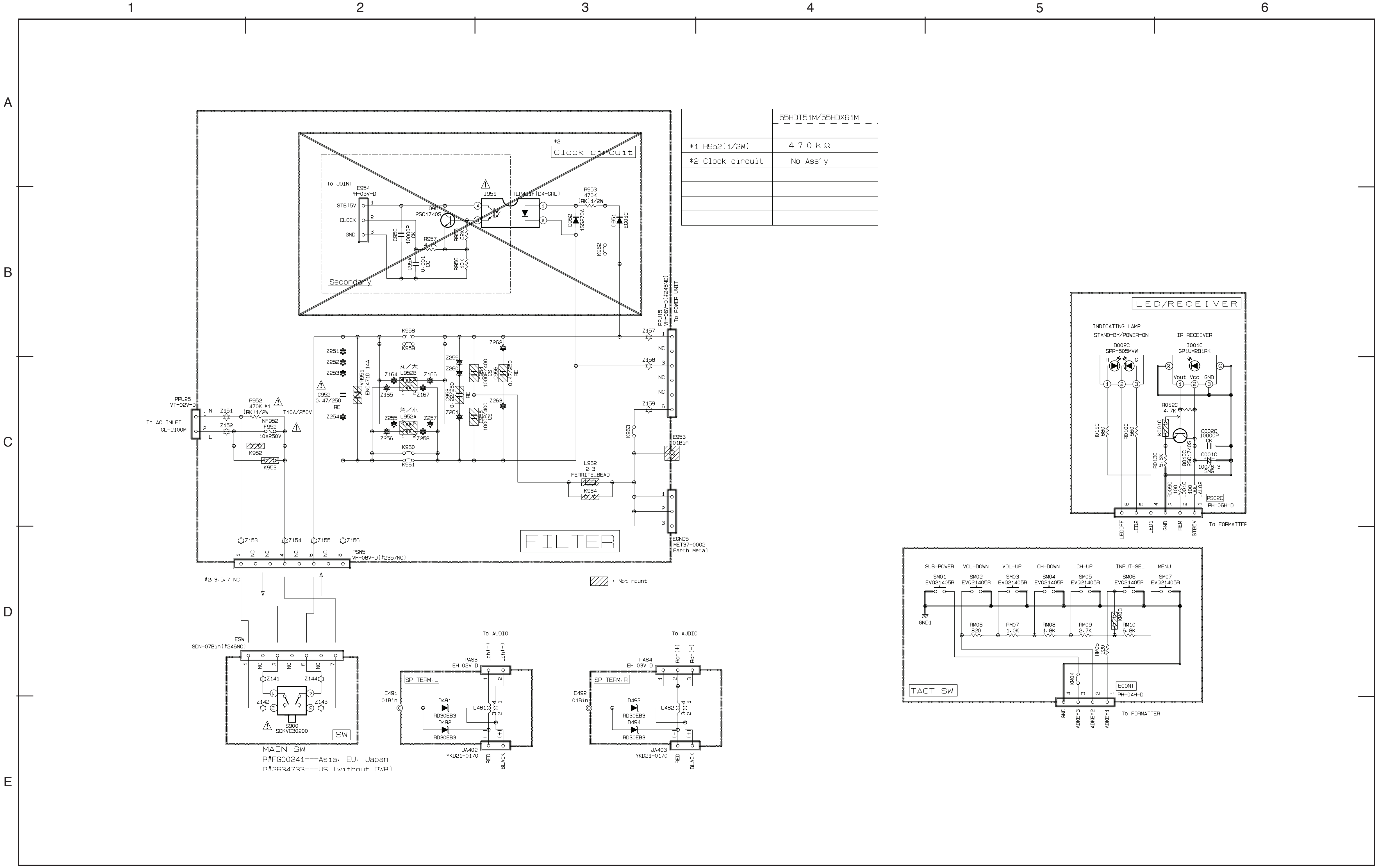
BASIC CIRCUIT DIAGRAM


1
2
3
4
5
6
A
B
C
D
E
Clock circuit
*2
To JOINT
E954
PH-03V-D
STB+5V
CLOCK
GND
Q951
2SC1740S
I951
TLP421F(D4-GRL)
R953
470K
(RK)1/2W
D952
1SS270A
D951
EG01C
K962
C950
1000P
R957
4.7K
C958
0.001
R956
10K
Secondary
PPU15
VH-06V-D(#2456NC)
To POWER UNIT
Z157
Z158
Z159
NC
K958
K959
K960
K961
Z251
Z252
Z253
Z254
VA951
ENC471D-14A
C952
0.47/250
RE
L952B
L952A
Z164
Z165
Z166
Z167
Z255
Z256
Z257
Z258
Z259
Z260
Z261
Z262
Z263
C953
C954
C955
C956
E953
01Bin
K963
L962
2.3
FERRITE_BEAD
K964
PPU25
VT-02V-D
To AC INLET
GL-2100M
N
L
Z151
Z152
R952
470K *1
(RK)1/2W
NF952
F952
10A250V
T10A/250V
K952
K953
Z153
Z154
Z155
Z156
PSW5
VH-08V-D(#2357NC)
#2.3.5.7 NC
FILTER
EGND5
MET37-0002
Earth Metal
▨ : Not mount
ESW
SDN-07Bin(#246NC)
Z141
Z142
Z143
Z144
S900
SDKVC30200
SW
MAIN SW
P#FG00241---Asia, EU, Japan
P#2634733---US (without PWB)
To AUDIO
PAS3
EH-02V-D
Lch(+)
Lch(-)
SP TERM.L
E491
01Bin
D491
D492
RD30EB3
L481
J4402
YKD21-0170
RED
BLACK
PAS4
EH-03V-D
Rch(+)
Rch(-)
SP TERM.R
E492
01Bin
D493
D494
RD30EB3
L482
J4403
YKD21-0170
LED/RECEIVER
INDICATING LAMP
STAND-BY/POWER-ON
D002C
SPR-505MVW
IR RECEIVER
I001C
GP1UM281RK
Vout Vcc GND
R011C
680
R010C
560
R012C
4.7K
K001C
C002C
10000P
Q001C
2SC1740S
C001C
100/6.3
R013C
5.6K
R009C
100
L001C
100
PSC2C
PH-06H-D
LEDOFF
LED2
LED1
GND
REM
STB5V
To FORMATTER
SUB-POWER
VOL-DOWN
VOL-UP
CH-DOWN
CH-UP
INPUT-SEL
MENU
SM01
SM02
SM03
SM04
SM05
SM06
SM07
EVQ21405R
GND1
RM06
820
RM07
1.0K
RM08
1.8K
RM09
2.7K
RM10
6.8K
RM05
220
KM03
KM04
TACT SW
ECONT
PH-04H-D
GND
ADKEY3
ADKEY2
ADKEY1
To FORMATTER

	55HDT51M/55HDX61M
*1 R952(1/2W)	470kΩ
*2 Clock circuit	No Ass'y

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Filter 2 of 2 (MONITOR)

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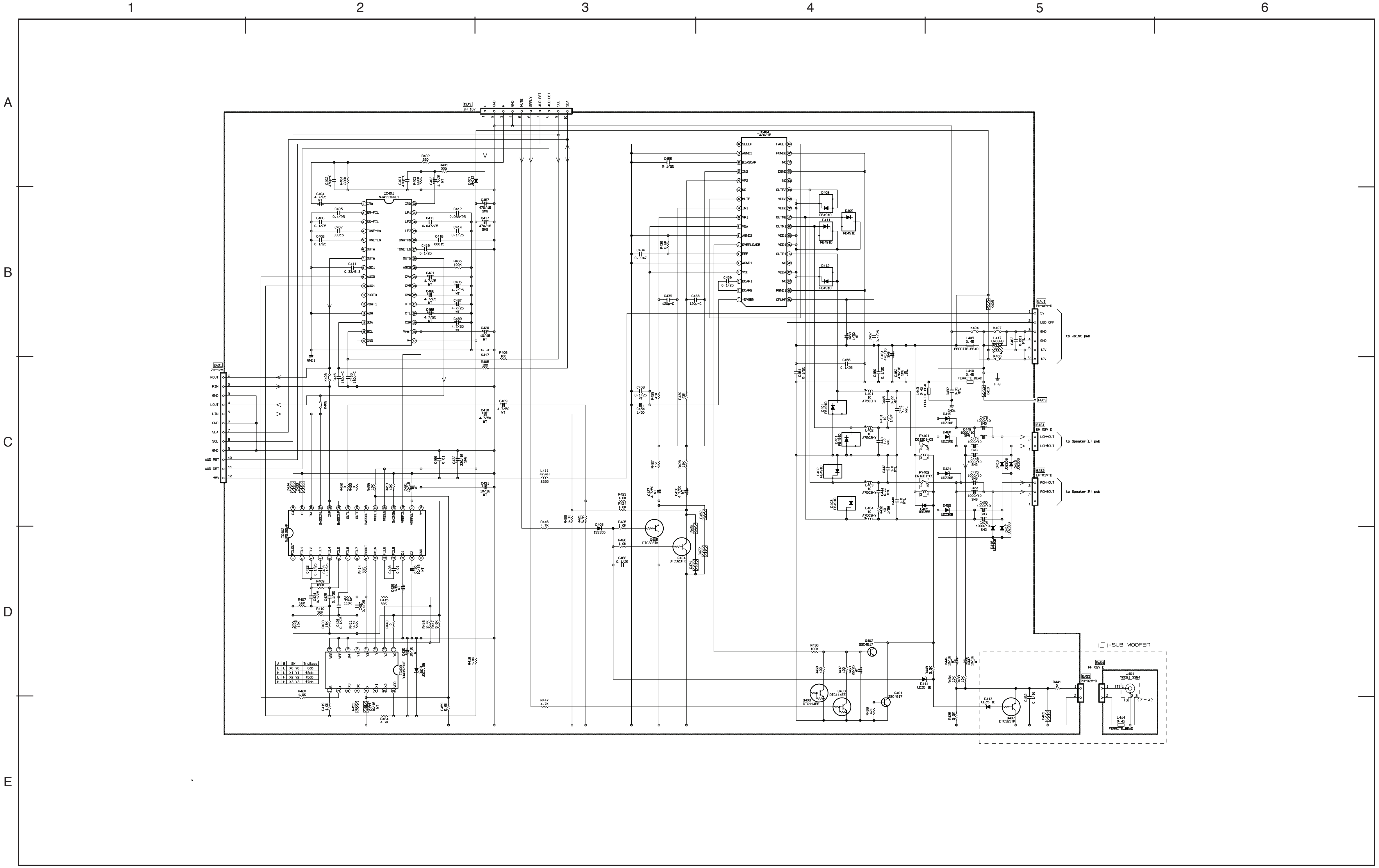
BASIC CIRCUIT DIAGRAM


1
2
3
4
5
6
A
B
C
D
E
IC401
NJW1136
IC402
IC403
IC404
TA2021B
to Joint pwb
to Speaker(L) pwb
to Speaker(R) pwb
SUB WOOFER
FERRITE BEAD
DTC323TK
DTC114EE
2SC4617

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Audio 1 of 2 (MONITOR)

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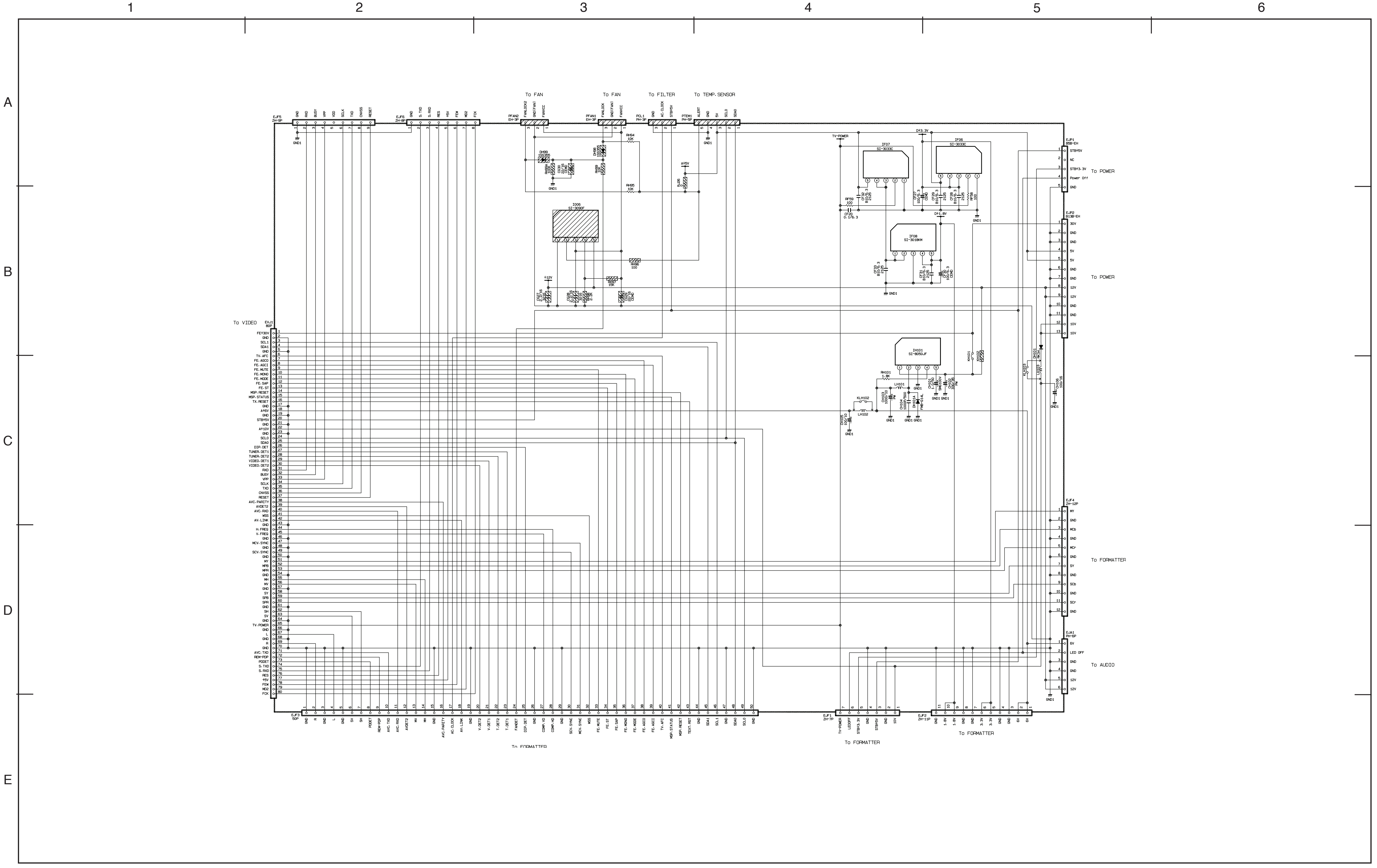
BASIC CIRCUIT DIAGRAM


1
2
3
4
5
6
A
B
C
D
E
To FAN
PFAN2 EH-3P
FANLOCK2
GND(FAN)
FANVCC
To FAN
PFAN1 EH-3P
FANLOCK
GND(FAN)
FANVCC
To FILTER
PCL1 PH-3P
GND
AC.CLOCK
STB+5V
To TEMP.SENSOR
PTEM1 PH-5P
ALERT
GND
5V
SCL0
SDA0
DH99 1SS355
DH98 1SS355
RH99A 100K
CG30 22/16 CEMD
RH99 10K
RH94 10K
RH95 10K
A+5V
RJ26 0
GND1
EJP1 B5B-EH
STB+5V
NC
STB+3.3V
Power Off
GND
To POWER
EJP2 B13B-EH
30V
GND
GND
5V
5V
GND
GND
12V
12V
GND
GND
10V
10V
To POWER
DH101 RK34
LH103
CH106 100/16
EJF4 ZH-12P
MY
GND
MCb
GND
MCr
GND
SY
GND
SCb
GND
SCr
GND
To FORMATTER
EJA1 PH-6P
6V
LED OFF
GND
GND
12V
12V
To AUDIO
To VIDEO
EJV1 80P
EJF3 50P
To FORMATTER
EJF1 ZH-7P
To FORMATTER
EJF2 ZH-11P
To FORMATTER

Audio 2 of 2 (MONITOR)

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

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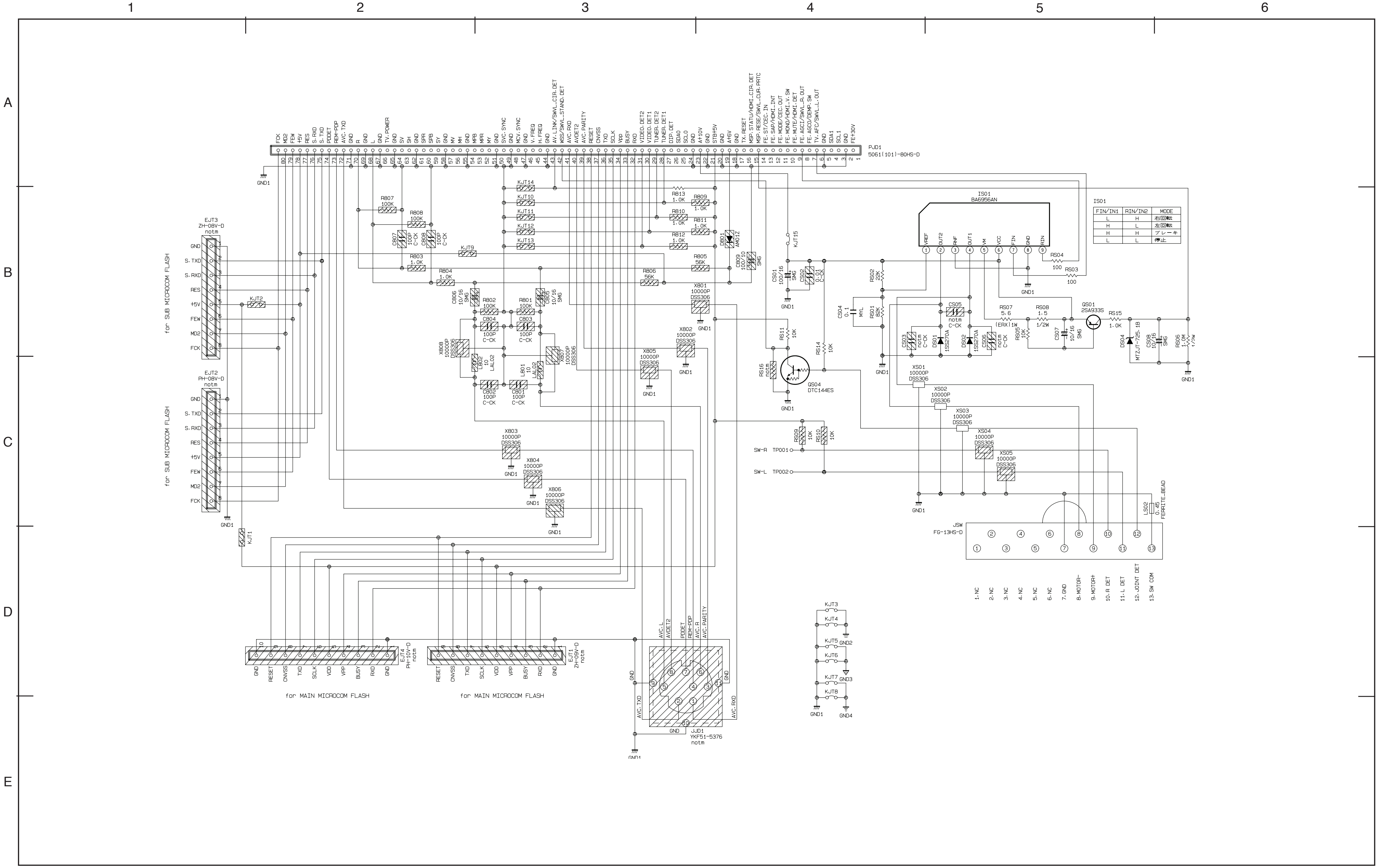
BASIC CIRCUIT DIAGRAM


1
2
3
4
5
6
A
B
C
D
E
PJD1
5061(101)-80HS-D
FCK
MD2
FEW
+5V
RES
S.RXD
S.TXD
PDDET
REM-PDP
AVC.TXD
GND
R
L
TV.POWER
SV
SH
SPR
SPB
SY
MV
MH
MPB
MPR
MY
SVC.SYNC
MCV.SYNC
V.FREQ
H.FREQ
AV.LINK/SWVL_CIR.DET
WSS/SWVL_STAND.DET
AVC.RXD
AVDET2
AVC.PARITY
RESET
CNVSS
TXD
SCLK
Vpp
BUSY
RXD
VIDEO.DET2
VIDEO.DET1
TUNER.DET2
TUNER.DET1
DIP.DET
SDA0
SCL0
A+10V
STB+5V
A+6V
TX.RESET
MSP.STATU/HDMI_CIR.DET
MSP.RESE/SWVL_CUR.PRTC
FE.ST/CEC.IN
FE.SAP/HDMI_INT
FE.MODE/CEC.OUT
FE.MONO/HDMI_V.SW
FE.MUTE/HDMI.DET
FE.AGCI/SWVL_R.OUT
FE.AGCO/DEMP.SW
TV.AFC/SWVL_L.OUT
SDA1
SCL1
FE+30V
GND1
EJT3
ZH-08V-D
notm
for SUB MICROCOM FLASH
EJT2
PH-08V-D
notm
for SUB MICROCOM FLASH
KJT1
KJT2
KJT9
KJT10
KJT11
KJT12
KJT13
KJT14
KJT15
R807
100K
R808
100K
R803
1.0K
R804
1.0K
R802
100K
R801
100K
R805
56K
R806
56K
R809
1.0K
R810
1.0K
R811
1.0K
R812
1.0K
R813
1.0K
C807
100P
C-CK
C808
100P
C-CK
C806
10/16
SMG
C805
10/16
SMG
C804
100P
C-CK
C803
100P
C-CK
C802
100P
C-CK
C801
100P
C-CK
C809
100/10
SMG
D801
AM01Z
L802
10
LAL02
L801
10
LAL02
X801
10000P
DSS306
X802
10000P
DSS306
X803
10000P
DSS306
X804
10000P
DSS306
X805
10000P
DSS306
X806
10000P
DSS306
X807
10000P
DSS306
X808
10000P
DSS306
IS01
BA6956AN
VREF
OUT2
RNF
OUT1
VM
VCC
FIN
GND
RIN
RS01
RS02
RS03
100
RS04
100
RS05
RS06
RS07
5.6
(ERX)1W
RS08
1.5
1/2W
RS09
10K
RS10
10K
RS11
10K
RS14
10K
RS15
1.0K
RS16
notm
CS01
100/16
SMG
CS02
CS03
CS04
0.1
MYL
CS05
notm
C-CK
CS06
CS07
10/16
SMG
CS08
DS01
1SS270A
DS02
1SS270A
DS04
MTZJT-25.1B
QS01
2SA933S
QS04
DTC144ES
XS01
10000P
DSS306
XS02
10000P
DSS306
XS03
10000P
DSS306
XS04
10000P
DSS306
XS05
10000P
DSS306
SW-R TP001
SW-L TP002
LS02
0.45
FERRITE.BEAD
JSW
FG-13HS-D
1.NC
2.NC
3.NC
4.NC
5.NC
6.NC
7.GND
8.MOTOR-
9.MOTOR+
10.R DET
11.L DET
12.JOINT DET
13.SW COM
KJT3
KJT4
KJT5
KJT6
KJT7
KJT8
GND2
GND3
GND4
EJT4
PH-10V-D
notm
for MAIN MICROCOM FLASH
EJT1
ZH-09V-D
notm
for MAIN MICROCOM FLASH
AVC.L
AVDET2
PDDET
REM-PDP
AVC.R
AVC.PARITY
AVC.TXD
AVC.RXD
JJD1
YKF51-5376
notm

IS01

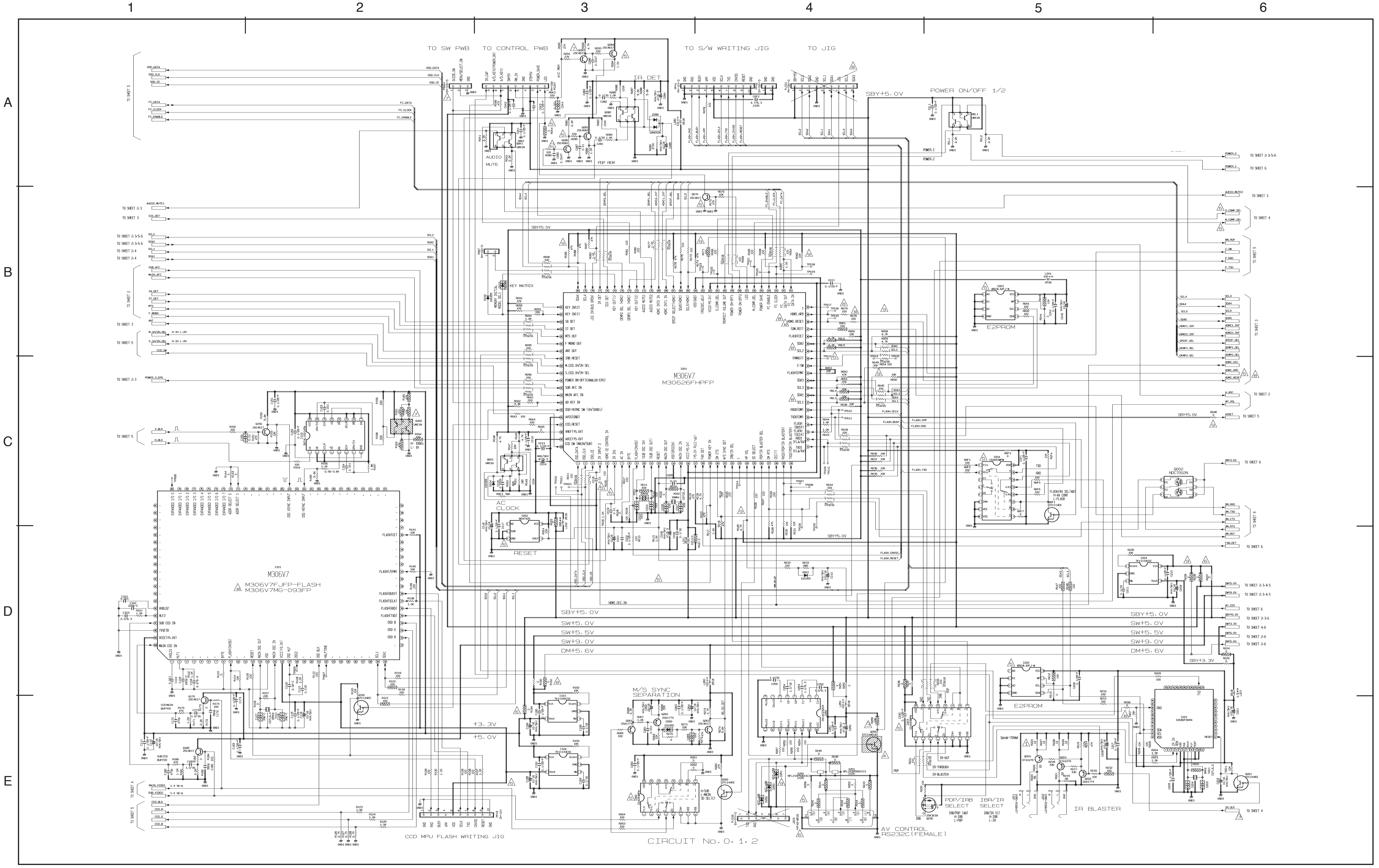
FIN/IN1	RIN/IN2	MODE
L	H	右回転
H	L	左回転
H	H	ブレーキ
L	L	停止

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Power Swivel (MONITOR)

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

BASIC CIRCUIT DIAGRAM

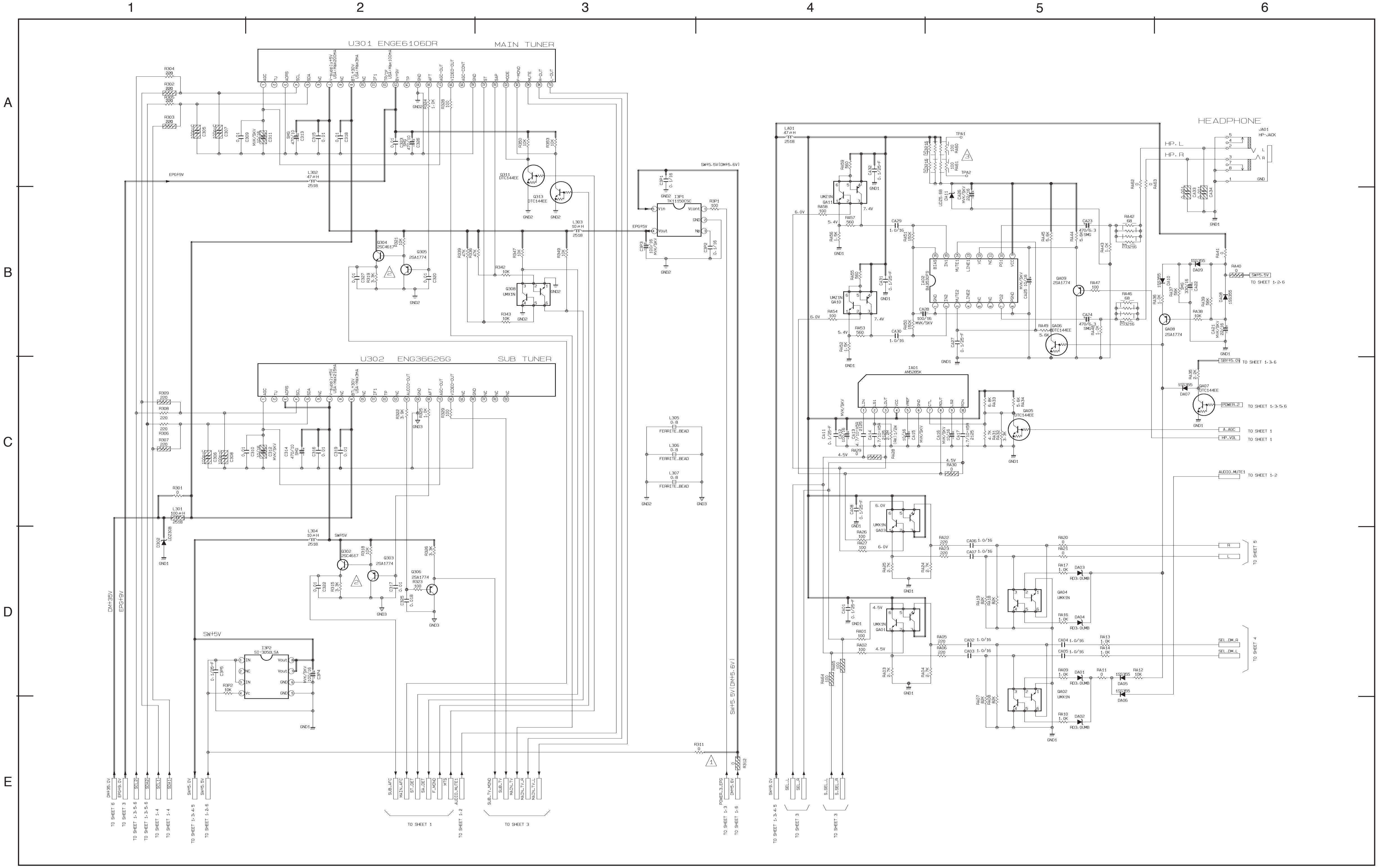

1
2
3
4
5
6
A
B
C
D
E
TO SW PWB
TO CONTROL PWB
TO S/W WRITING JIG
TO JIG
IR DET
AUDIO MUTE
PDP REM
SBY+5.0V
POWER ON/OFF 1/2
KEY MATRIX
M306V7
M30626FHPFP
E2PROM
AC CLOCK
RESET
M306V7
M306V7FJFP-FLASH
M306V7MG-093FP
SBY+5.0V
SW+5.0V
SW+5.5V
SW+9.0V
DM+5.6V
SBY+3.3V
+3.3V
+5.0V
M/S SYNC SEPARATION
CIRCUIT No. 0.1.2
AV CONTROL
RS232C(FEMALE)
PDP/IRB SELECT
IBR/IR SELECT
IR BLASTER
CCD MPU FLASH WRITING JIG

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

BASIC CIRCUIT DIAGRAM

PT5-G/PW1-H
SIGNAL - TUNER/AUDIO
2 of 6 (AVC5-U)


1
2
3
4
5
6
A
B
C
D
E
U301 ENGE6106DR
MAIN TUNER
U302 ENG36626G
SUB TUNER
HEADPHONE
HP.L
HP.R
JA01 HP-JACK
IA01 AN5285K
I3P1 TK11150CSC
I3P2 SI-3050LSA
SW5.5V(DH5.6V)
SW5V
DH+35V
EPG+9V
FERRITE_BEAD
TO SHEET 1
TO SHEET 3
TO SHEET 4
TO SHEET 5

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

SIGNAL - TUNER/AUDIO
2 of 6 (AVC5-U)

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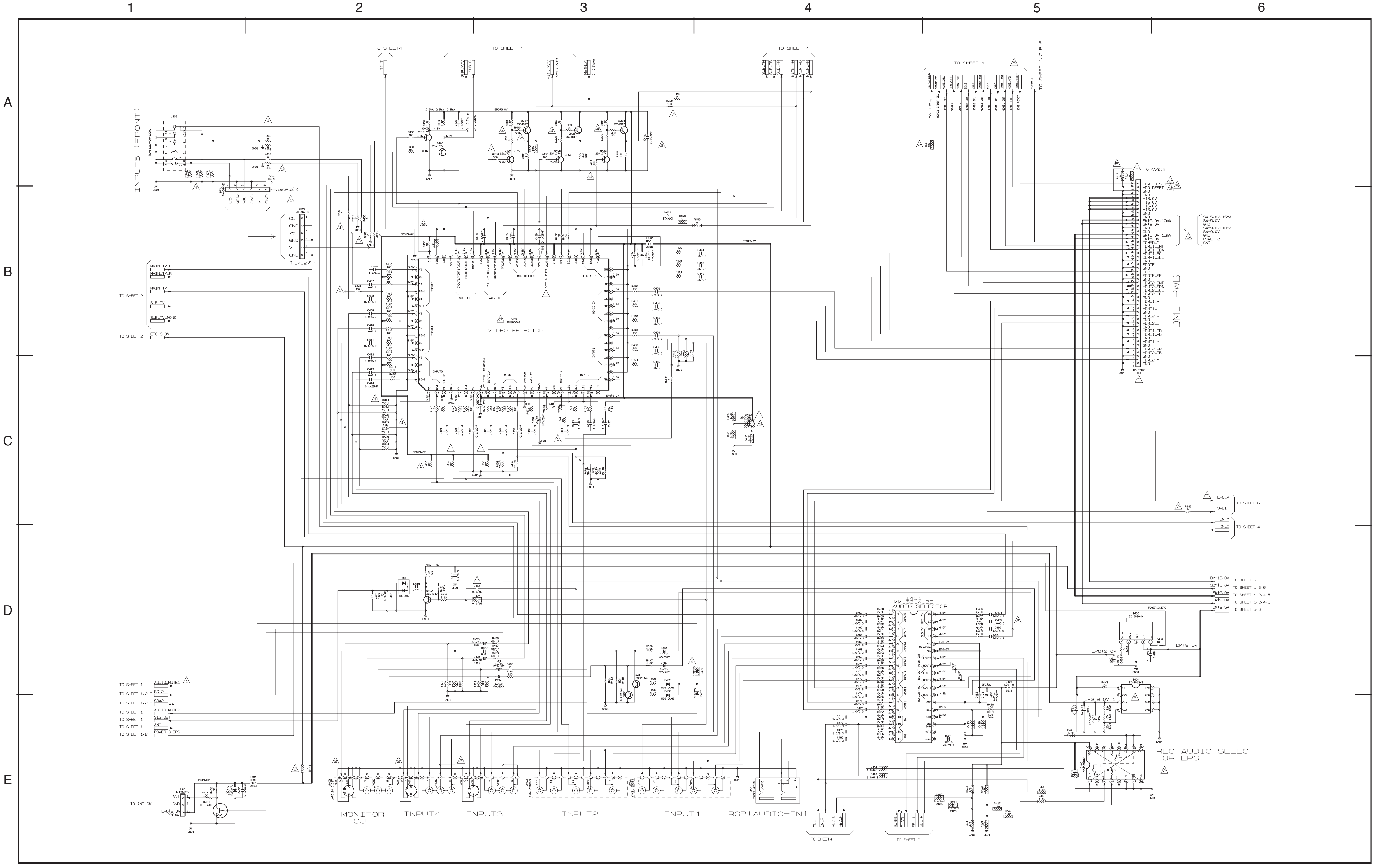
BASIC CIRCUIT DIAGRAM


1
2
3
4
5
6
A
B
C
D
E
TO SHEET4
TO SHEET 4
TO SHEET 1
TO SHEET 1-2-5-6
INPUT5 (FRONT)
MAIN_TV_L
MAIN_TV_R
MAIN_TV
SUB_TV
SUB_TV_MONO
TO SHEET 2
EPG9.0V
VIDEO SELECTOR
0.4A/pin
HDMI PWB
EPG_Y
SPDIF
DM_Y
DM_C
TO SHEET 6
I401
MM1631XJBE
AUDIO SELECTOR
EPG9.0V
EPG9.0V-1
DMY9.5V
REC AUDIO SELECT FOR EPG
TO SHEET 1
TO SHEET 1-2-6
TO SHEET 1-2
AUDIO_MUTE1
SDL2
SDA2
AUDIO_MUTE2
DIG_DE
ANT
POWER_3_EPG
TO ANT SW
MONITOR OUT
INPUT4
INPUT3
INPUT2
INPUT1
RGB(AUDIO-IN)

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

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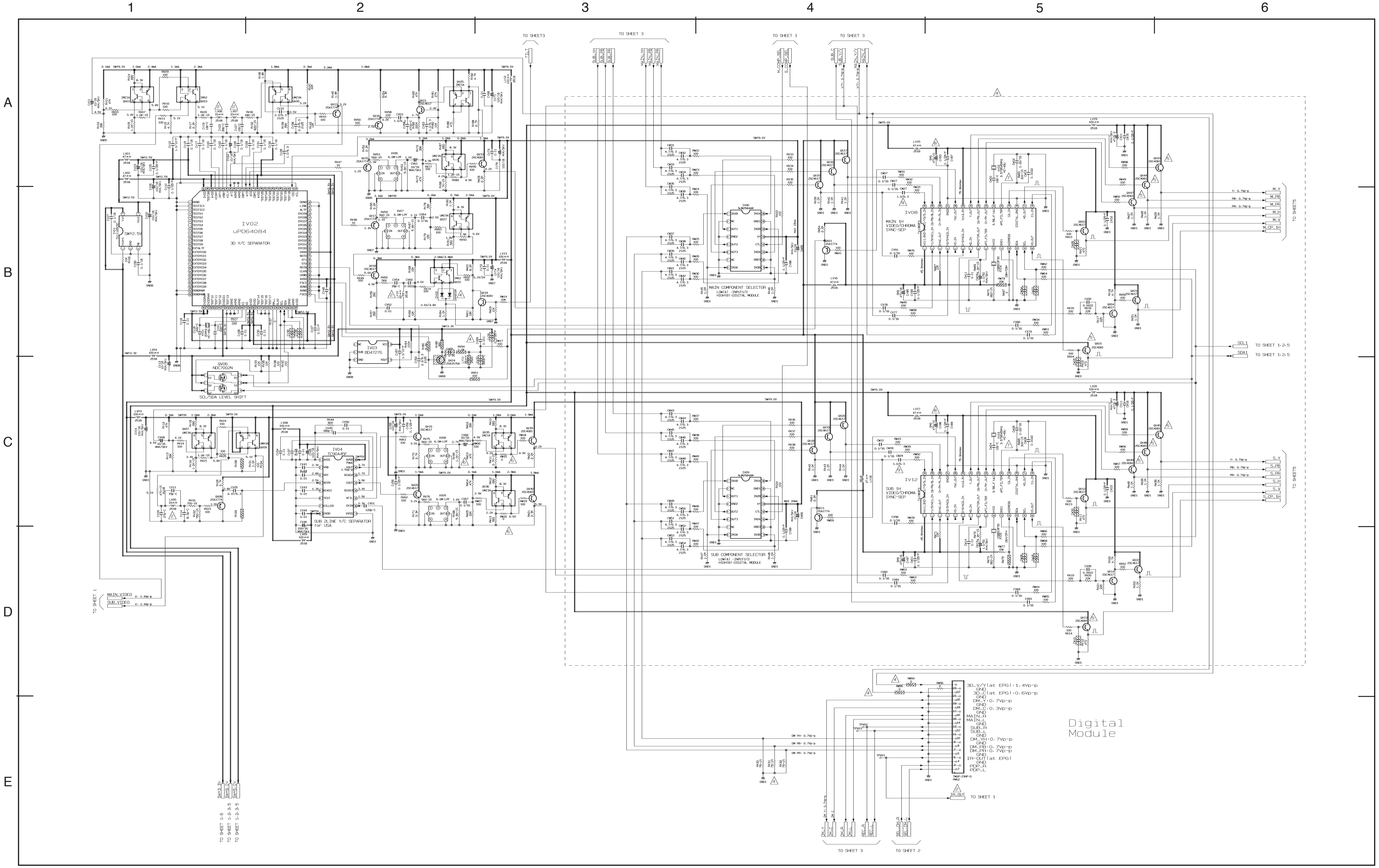
BASIC CIRCUIT DIAGRAM


1
2
3
4
5
6
A
B
C
D
E
TO SHEET3
TO SHEET 3
TO SHEET 1
TO SHEET 3
IV02
uPD64084
3D Y/C SEPARATOR
IV03
BD4727G
GV06
NDC7002N
SCL/SDA LEVEL SHIFT
IV04
TC90A45F
SUB 2LINE Y/C SEPARATOR
for USA
MAIN COMPONENT SELECTOR
SUB COMPONENT SELECTOR
IV08
MAIN 1H
VIDEO/CHROMA
SYNC-SEP
IV12
SUB 1H
VIDEO/CHROMA
SYNC-SEP
TO SHEET 5
TO SHEET 1-2-5
TO SHEET 1
MAIN_VIDEO
SUB_VIDEO
Digital
Module
TO SHEET 1
TO SHEET 1-6
TO SHEET 1-2-3-5
TO SHEET 3
TO SHEET 2

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

SIGNAL - VIDEO/CHROMA
4 of 6 (AVC5-U)

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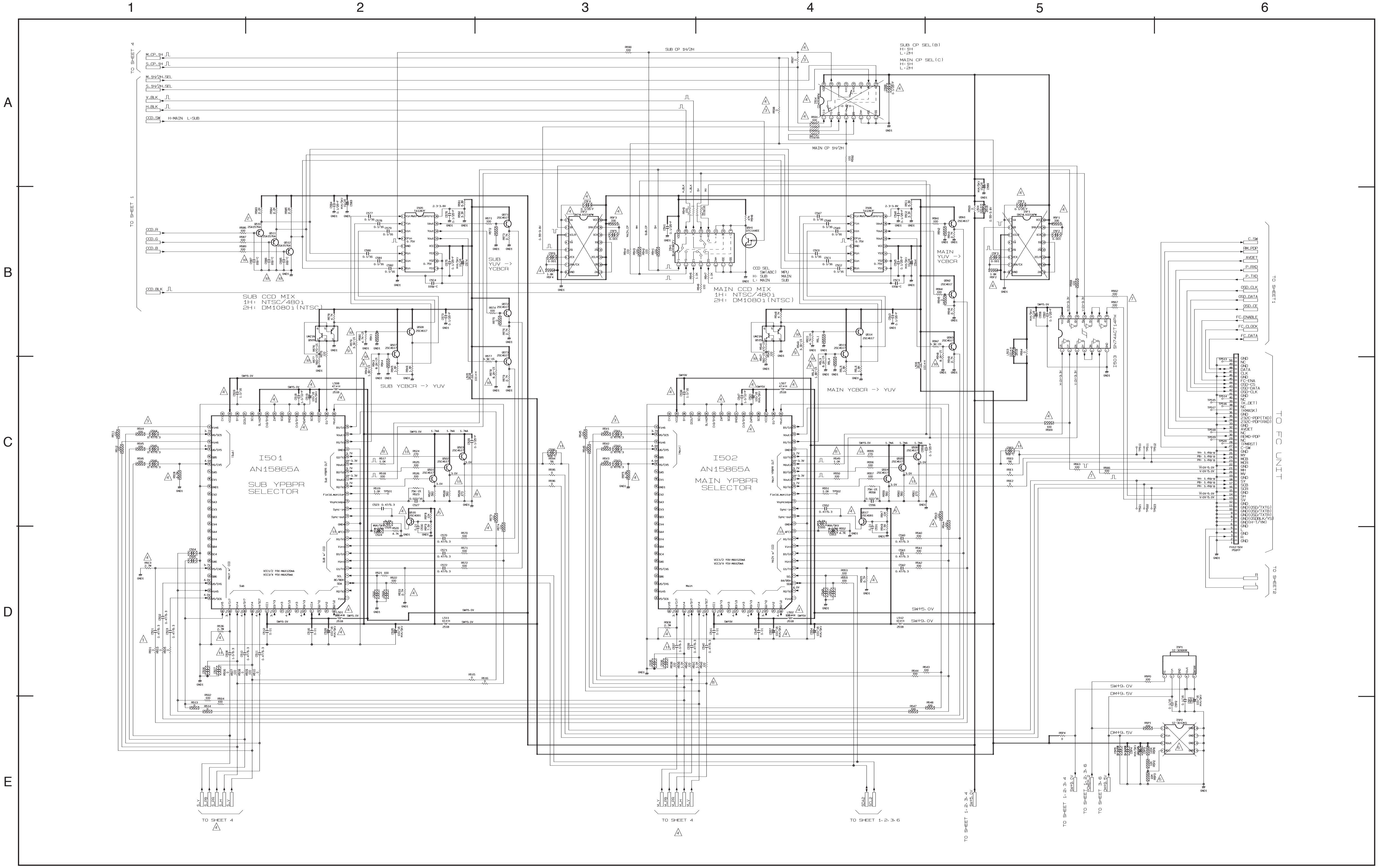
BASIC CIRCUIT DIAGRAM


1
2
3
4
5
6
A
B
C
D
E
TO SHEET 4
TO SHEET 1
H:MAIN L:SUB
SUB CP 1H/2H
SUB CP SEL(B)
H:1H
L:2H
MAIN CP SEL(C)
H:1H
L:2H
MAIN CP 1H/2H
SUB CCD MIX
1H: NTSC/480i
2H: DM1080i(NTSC)
SUB
YUV ->
YCBCR
MAIN CCD MIX
1H: NTSC/480i
2H: DM1080i(NTSC)
CCD SEL
H: SUB
L: MAIN
MAIN
YUV ->
YCBCR
SUB YCBCR -> YUV
MAIN YCBCR -> YUV
I501
AN15865A
SUB YPBPR
SELECTOR
I502
AN15865A
MAIN YPBPR
SELECTOR
I503
SN74ACT14PW
TO SHEET1
TO FC UNIT
TO SHEET2
SW+9.0V
SW+5.0V
DM+9.5V
TO SHEET 4
TO SHEET 4
TO SHEET 1,2,3,6
TO SHEET 1,2,3,4
TO SHEET 1,2,3,4
TO SHEET 1,2,3,6
TO SHEET 3,6

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

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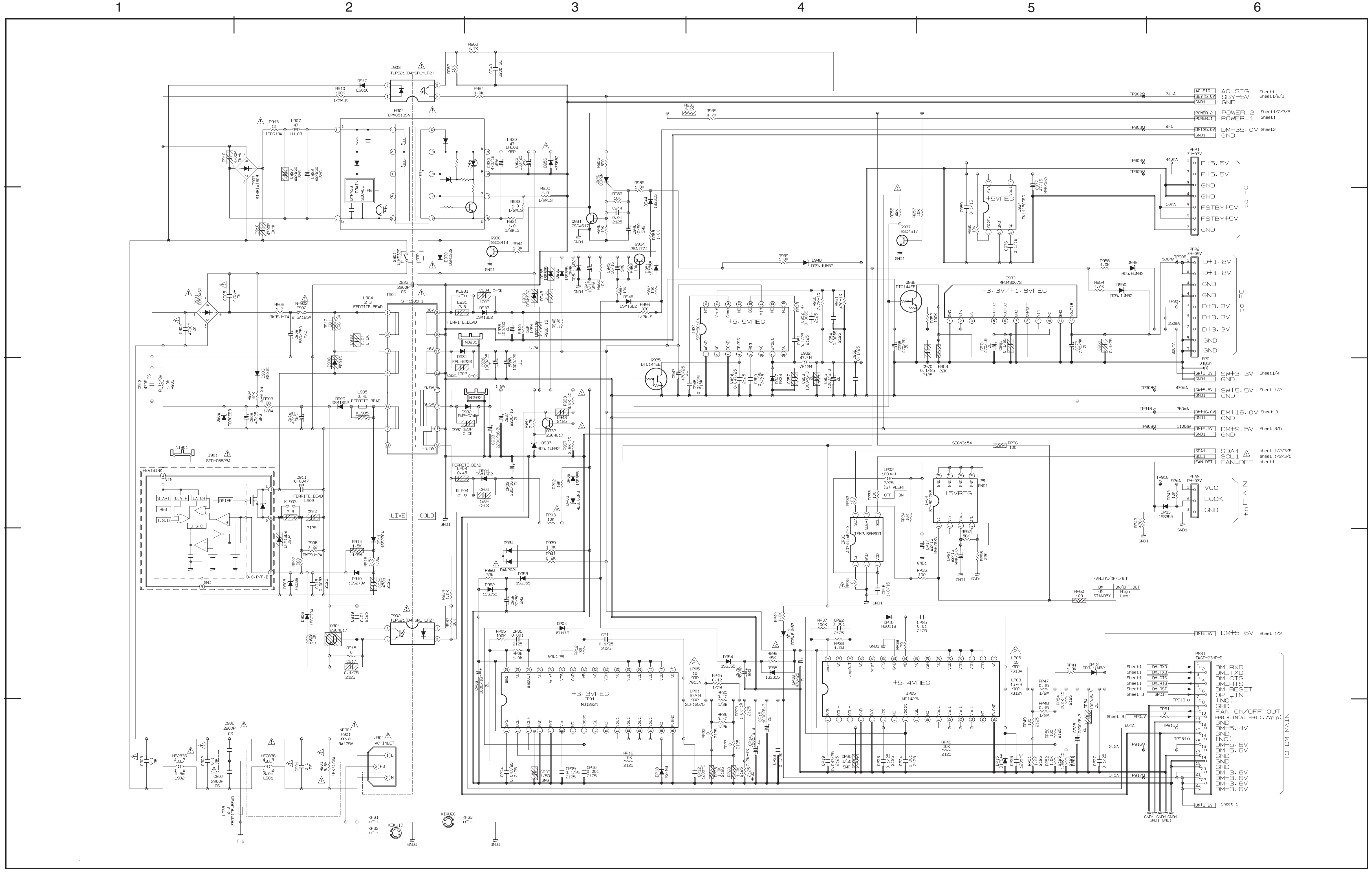
BASIC CIRCUIT DIAGRAM

PT5-G/PW1-H
SIGNAL - AV/POWER
6 of 6 (AVC5-U)



1
2
3
4
5
6
A
B
C
D
E
I903 TLP621(D4-GRL-LF2)
H901 uPMD5185A
I901 STR-G6623A
HEATSINK
VIN
START
O.V.P
LATCH
DRIVE
REG
T.S.D
O.S.C
O.C.P/F.B
GND
T901 ST-1505F1
LIVE
COLD
I902 TLP621(D4-GRL-LF2)
J901 AC-INLET
F901 5A125V
NF901
NF902
F902 2.5A125V
+5.5VREG
+3.3V/+1.8VREG
I933 MPM05D07S
+5VREG
I932 TA1105SC
+3.3VREG
IP01 MD1223N
+5.4VREG
IP05 MD1422N
TEMP.SENSOR
ALERT
FAN_ON/OFF_OUT
DM ON STANDBY
ON/OFF_OUT High Low
AC_SIG Sheet1
SBY+5V Sheet1/2/3
GND
POWER_2 Sheet1/2/3/5
POWER_1 Sheet1
DM+35.0V Sheet2
GND
PFP1 ZH-07V
F+5.5V
F+5.5V
GND
GND
FSTBY+5V
FSTBY+5V
GND
to FC
PFP2 ZH-09V
D+1.8V
D+1.8V
GND
GND
D+3.3V
D+3.3V
D+3.3V
GND
GND
to FC
EPG 01Bin
SW+3.3V Sheet1/4
GND
SW+5.5V Sheet 1/2
GND
DM+16.0V Sheet 3
GND
DM+9.5V Sheet 3/5
GND
SDA1 sheet 1/2/3/5
SCL1 sheet 1/2/3/5
FAN_DET sheet1
PFAN PH-03V
VCC
LOCK
GND
to FAN
DM+5.6V Sheet 1/2
PMS1 TWGP-23HP-D
DM_RXD
DM_TXD
DM_CTS
DM_RTS
DM_RESET
OPT_IN
(NC)
GND
FAN_ON/OFF_OUT
EPG_V_IN(at EPG:0.7Vp-p)
GND
DM-5.4V
GND
(NC)
DM+5.6V
DM+5.6V
GND
GND
GND
DM+3.6V
DM+3.6V
DM+3.6V
DM+3.6V
TO DM MAIN
DM+3.6V Sheet 1

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

SIGNAL - AV/POWER
6 of 6 (AVC5-U)

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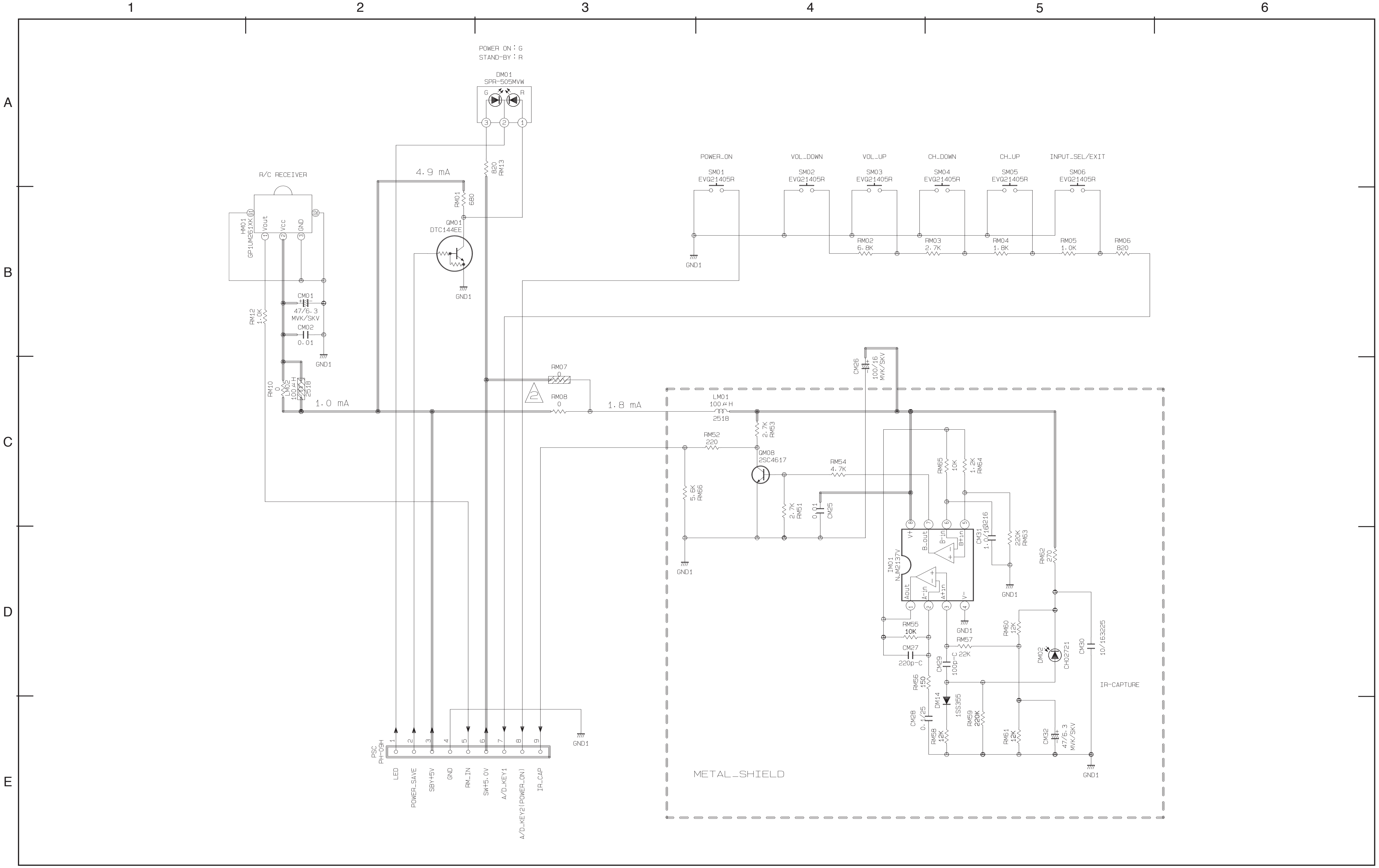
BASIC CIRCUIT DIAGRAM


1
2
3
4
5
6
A
B
C
D
E
POWER ON : G
STAND-BY : R
DM01
SPR-505MVW
G
R
3
2
1
820
RM13
4.9 mA
RM01
680
QM01
DTC144EE
GND1
R/C RECEIVER
HM01
GP1UM261XK
G1
G2
Vout
Vcc
GND
1
2
3
CM01
47/6.3
MVK/SKV
CM02
0.01
GND1
RM12
1.0K
RM10
0
LM02
100µH
2518
1.0 mA
RM07
0
2
RM08
0
1.8 mA
POWER_ON
SM01
EVQ21405R
VOL_DOWN
SM02
EVQ21405R
VOL_UP
SM03
EVQ21405R
CH_DOWN
SM04
EVQ21405R
CH_UP
SM05
EVQ21405R
INPUT_SEL/EXIT
SM06
EVQ21405R
GND1
RM02
6.8K
RM03
2.7K
RM04
1.8K
RM05
1.0K
RM06
820
CM26
100/16
MVK/SKV
LM01
100µH
2518
2.7K
RM53
RM52
220
QM08
2SC4617
RM54
4.7K
5.6K
RM66
2.7K
RM51
0.01
CM25
GND1
RM65
10K
1.2K
RM64
CM31
1.0/163216
220K
RM63
GND1
RM62
270
IM01
NJM2137V
V+
B_out
B-in
B+in
Aout
A-in
A+in
V-
8
7
6
5
1
2
3
4
GND1
RM55
10K
CM27
220p-C
RM57
22K
CM29
100p-C
RM60
12K
DM02
CH02721
CM30
10/163225
IR-CAPTURE
RM56
150
DM14
1SS355
CM28
0.1/25
RM58
12K
RM59
220K
RM61
12K
CM32
47/6.3
MVK/SKV
GND1
PSC
PH-09H
1
2
3
4
5
6
7
8
9
GND1
LED
POWER_SAVE
SBY+5V
GND
RM_IN
SW+5.0V
A/D_KEY1
A/D_KEY2(POWER_ON)
IR_CAP
METAL_SHIELD

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

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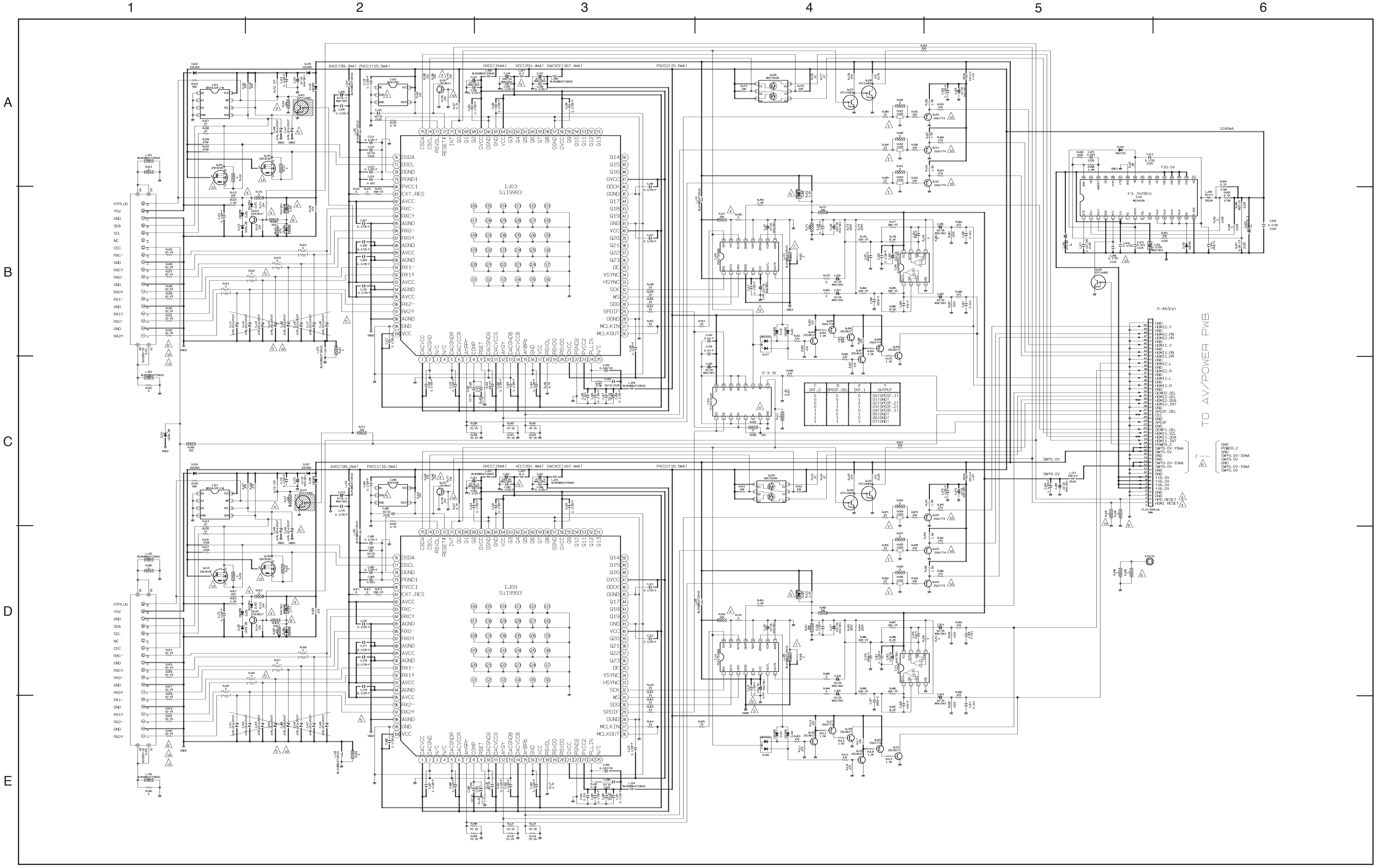
BASIC CIRCUIT DIAGRAM

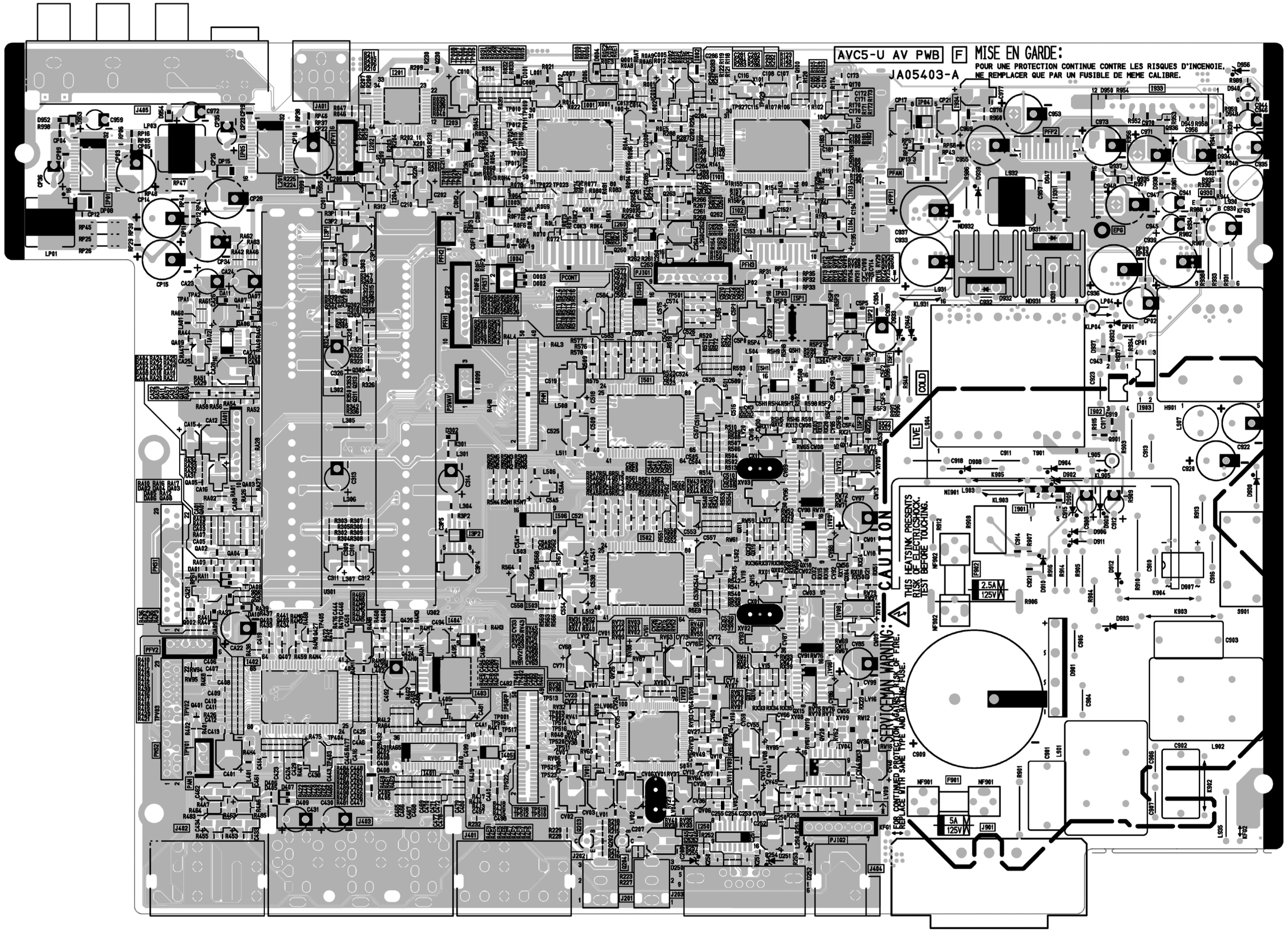

1
2
3
4
5
6
A
B
C
D
E
IJ03
SiI9993
IJ09
SiI9993
AVCC(99.2mA) PVCC1(15.5mA)
OVCC(31mA) VCC(291.4mA) DACVCC(167.4mA)
PVCC2(15.5mA)
1240mA
+15.0V
+3.3VREG
0.4A/pin
TO AV/POWER PWB
FLZX-50HLow
PMH
GND
HDMI2_Y
HDMI2_PB
HDMI2_PR
HDMI1_Y
HDMI1_PB
HDMI1_PR
HDMI2_L
HDMI2_R
HDMI1_L
HDMI1_R
DEMP2_SEL
HDMI2_SCL
HDMI2_SDA
HDMI2_INT
SPDIF_SEL
CEC
SPDIF
DEMP1_SEL
HDMI1_SCL
HDMI1_SDA
HDMI1_INT
POWER_2
SW+5.0V:15mA
SW+5.0V
SW+9.0V:10mA
SW+9.0V
+16.0V
HPD RESET
HDMI RESET
SW+5.0V
SW+9.0V
KIKU1C
HTPLUG
+5V
SDA
SCL
NC
CEC
RX C-
RX C+
RX 0-
RX 0+
RX 1-
RX 1+
RX 2-
RX 2+

C INT_2	B SPDIF_SEL	A INT_1	Y OUTPUT
0	0	0	D0(SPDIF_1)
0	0	1	D1(GND)
0	1	0	D2(SPDIF_2)
0	1	1	D3(SPDIF_2)
1	0	0	D4(SPDIF_1)
1	0	1	D5(GND)
1	1	0	D6(GND)
1	1	1	D7(GND)

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

PRINTED CIRCUIT BOARDS

AV P.W.B. - CS


AVC5-U AV PWB
F
JA05403-A
MISE EN GARDE:
POUR UNE PROTECTION CONTINUE CONTRE LES RISQUES D'INCENDIE,
NE REMPLACER QUE PAR UN FUSIBLE DE MEME CALIBRE.
CAUTION
THIS HEATSINK PRESENTS RISK OF ELECTRIC SHOCK. TEST BEFORE TOUCHING.
SERVICEMAN WARNING: REPLACE WITH SAME TYPE AND RATING FUSE.
LIVE
COLD
2.5A 125V
5A 125V

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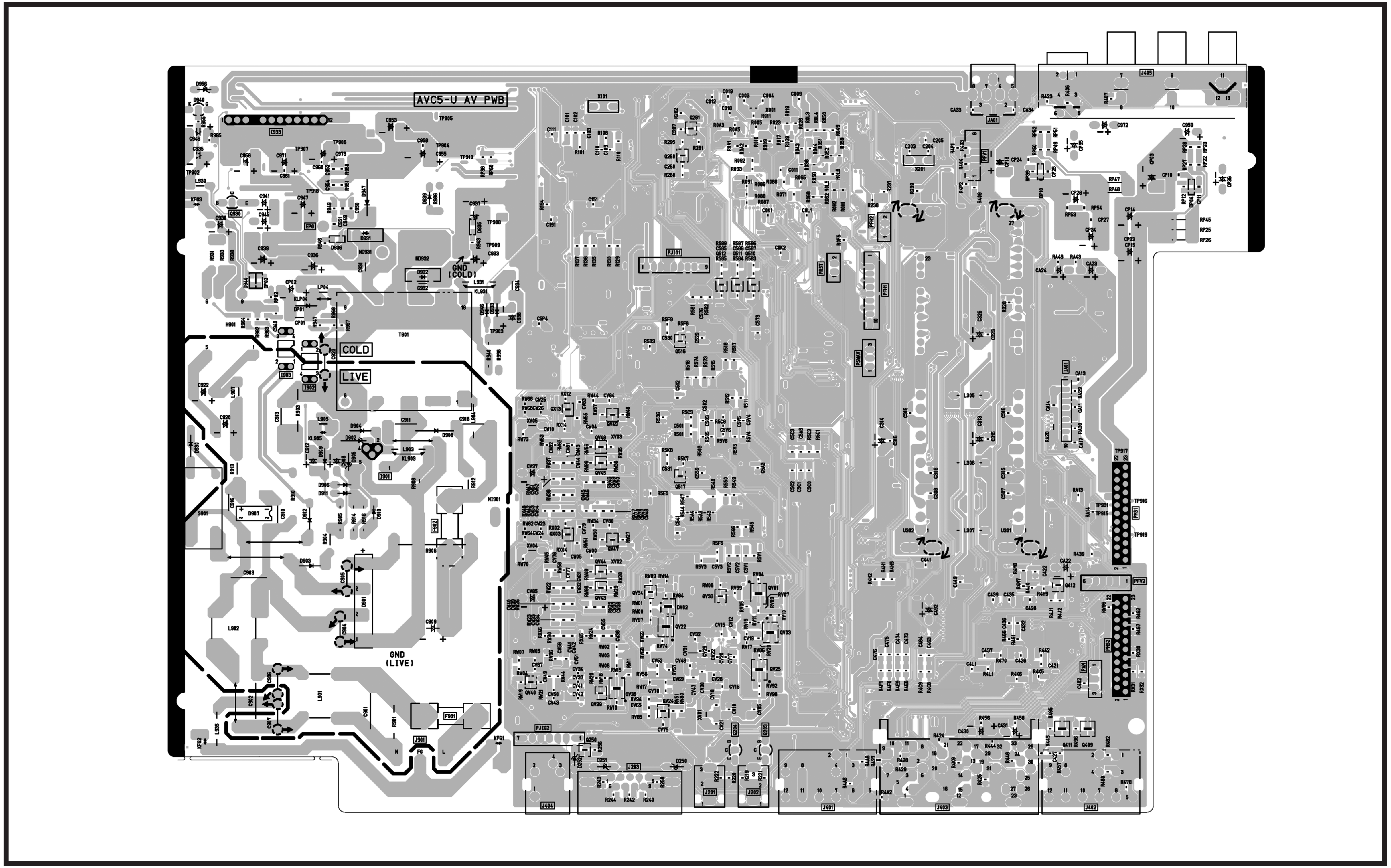
PRINTED CIRCUIT BOARDS

AV P.W.B. - SS


AVC5-U AV PWB
COLD
LIVE
GND (COLD)
GND (LIVE)

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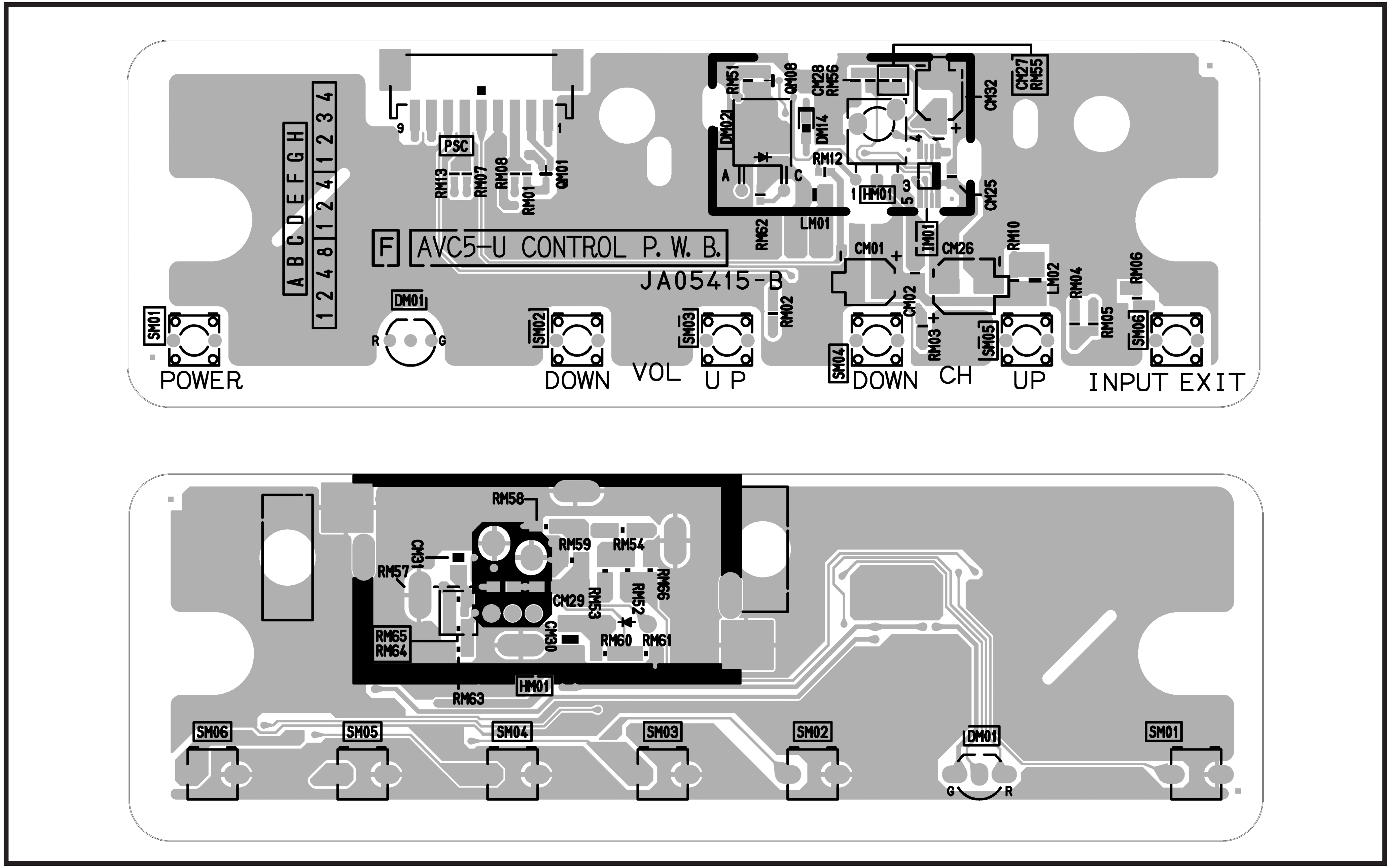
PRINTED CIRCUIT BOARDS

CONTROL P.W.B.


F
AVC5-U CONTROL P. W. B.
JA05415-B
A B C D E F G H
1 2 4 8 1 2 4 1 2 3 4
PSC
RM13
RM07
RM08
RM01
QM01
RM51
QM08
CM28
RM56
CM27
RM55
CM32
DM02
DM14
RM12
HM01
CM25
RM62
LM01
CM01
LM01
CM26
RM10
LM02
RM04
RM06
RM05
RM02
CM02
RM03
SM01
SM02
SM03
SM04
SM05
SM06
DM01
R
G
POWER
DOWN
VOL
U P
DOWN
CH
UP
INPUT
EXIT
RM58
RM59
RM54
CM31
RM57
CM29
RM53
RM52
RM66
CM30
RM60
RM61
RM65
RM64
RM63
HM01

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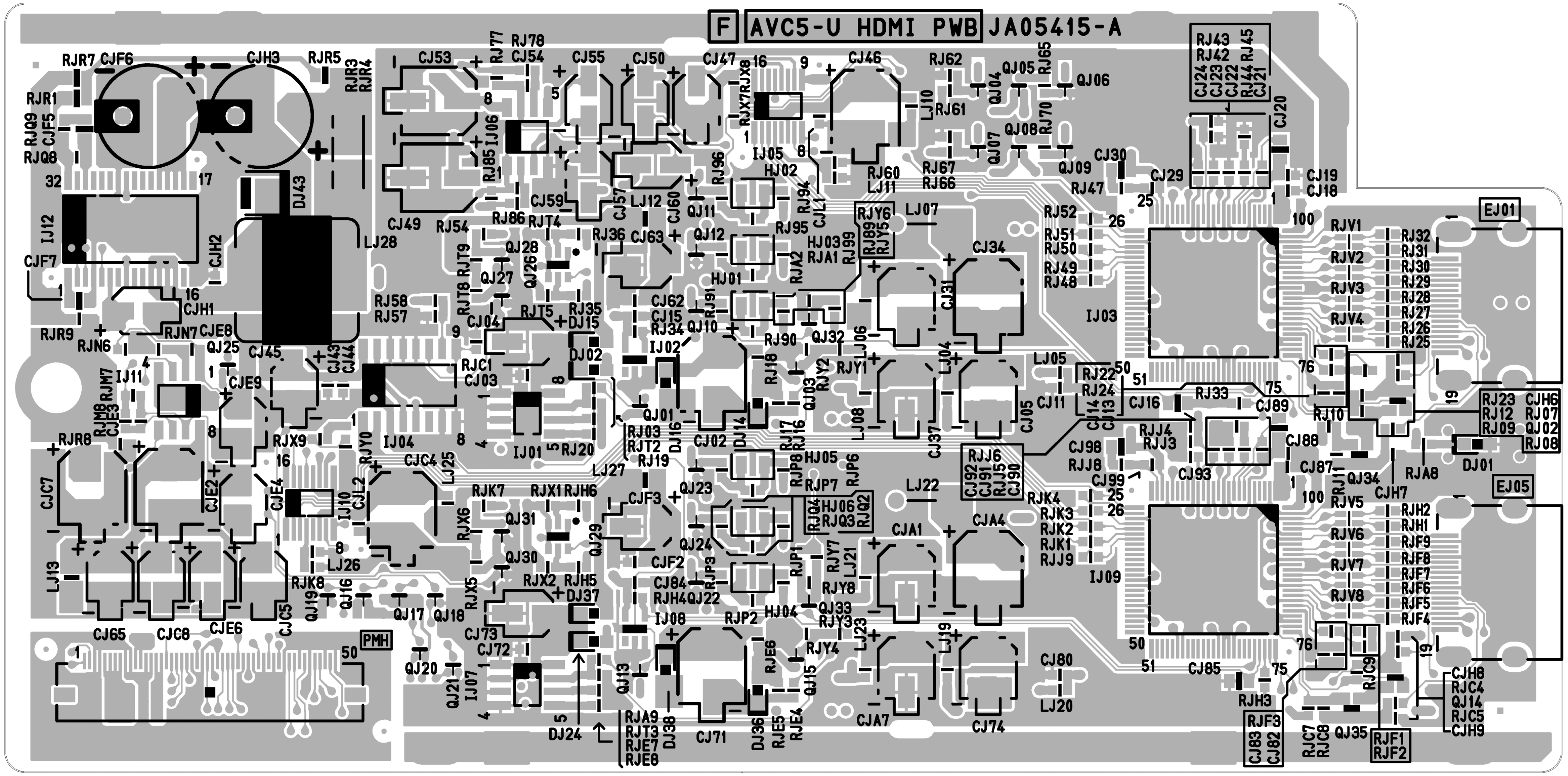
PRINTED CIRCUIT BOARDS

HDMI P.W.B. - CS


F AVC5-U HDMI PWB JA05415-A
EJ01
EJ05
PMH

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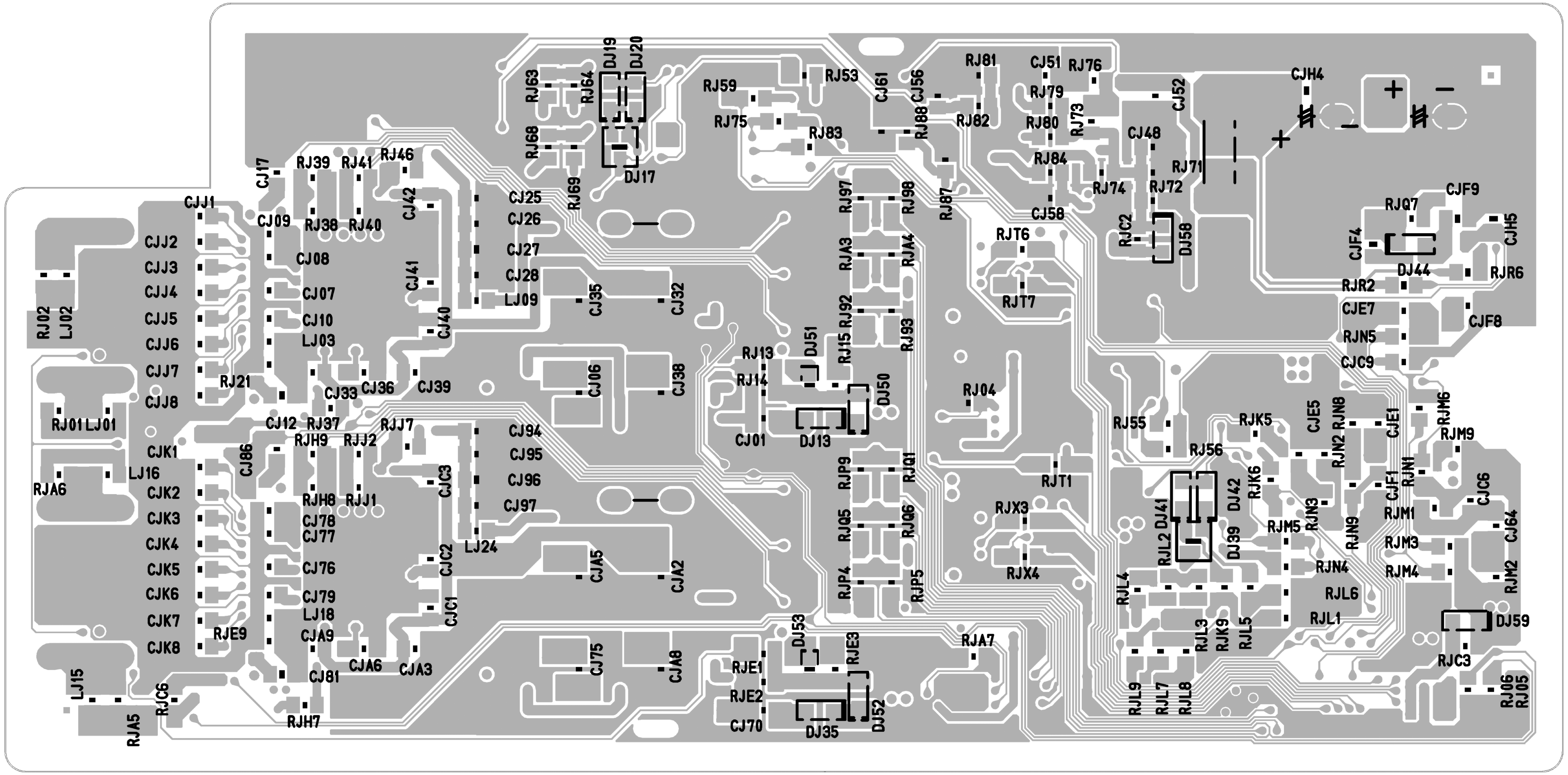
PRINTED CIRCUIT BOARDS

HDMI P.W.B. - SS


DJ19
DJ20
RJ63
RJ64
RJ53
RJ59
CJ61
CJ56
RJ81
CJ51
RJ76
RJ79
CJ52
CJH4
RJ75
RJ83
RJ88
RJ82
RJ80
RJ73
CJ48
RJ68
DJ17
RJ84
RJ71
CJ17
RJ39
RJ41
RJ46
RJ69
RJ97
RJ98
RJ87
RJ74
RJ72
CJF9
CJJ1
CJ42
CJ25
CJ26
CJ58
RJQ7
CJ09
RJ38
RJ40
RJC2
DJ58
CJH5
CJJ2
CJ27
RJA3
RJA4
RJT6
CJF4
DJ44
RJR6
CJJ3
CJ08
CJ41
CJ28
CJ35
CJ32
RJR2
CJJ4
CJ07
LJ09
RJT7
CJE7
CJF8
RJ02
LJ02
CJJ5
CJ10
CJ40
RJ92
RJ93
RJN5
CJJ6
LJ03
DJ51
RJ15
RJ13
CJC9
CJJ7
RJ21
CJ33
CJ36
CJ39
CJ06
CJ38
RJ14
DJ50
RJ04
CJJ8
RJ01
LJ01
CJ12
RJ37
RJJ7
RJ55
RJK5
CJE5
RJN8
CJE1
RJM6
RJM9
CJ94
CJ01
DJ13
RJ56
RJN2
CJK1
RJH9
RJJ2
CJ95
RJP9
RJQ1
LJ16
CJ86
CJC3
DJ42
RJK6
CJF1
RJN1
CJC6
RJA6
CJK2
CJ96
RJT1
RJH8
RJJ1
CJ97
RJX3
CJK3
CJ78
RJQ5
RJQ6
DJ41
RJN3
RJM1
CJK4
CJ77
LJ24
RJL2
DJ39
RJM5
RJN9
CJ64
RJM3
CJK5
CJ76
CJC2
CJA5
CJA2
RJX4
RJN4
RJM4
RJM2
CJK6
CJ79
RJP4
RJP5
RJL4
RJL6
CJK7
LJ18
CJC1
RJL1
DJ59
RJE9
CJA9
DJ53
RJE3
RJA7
RJL3
RJK9
RJL5
CJK8
CJA6
CJA3
CJ75
CJA8
RJE1
RJC3
LJ15
CJ81
RJE2
RJL9
RJL7
RJL8
RJ06
RJ05
RJC6
DJ52
RJA5
RJH7
CJ70
DJ35

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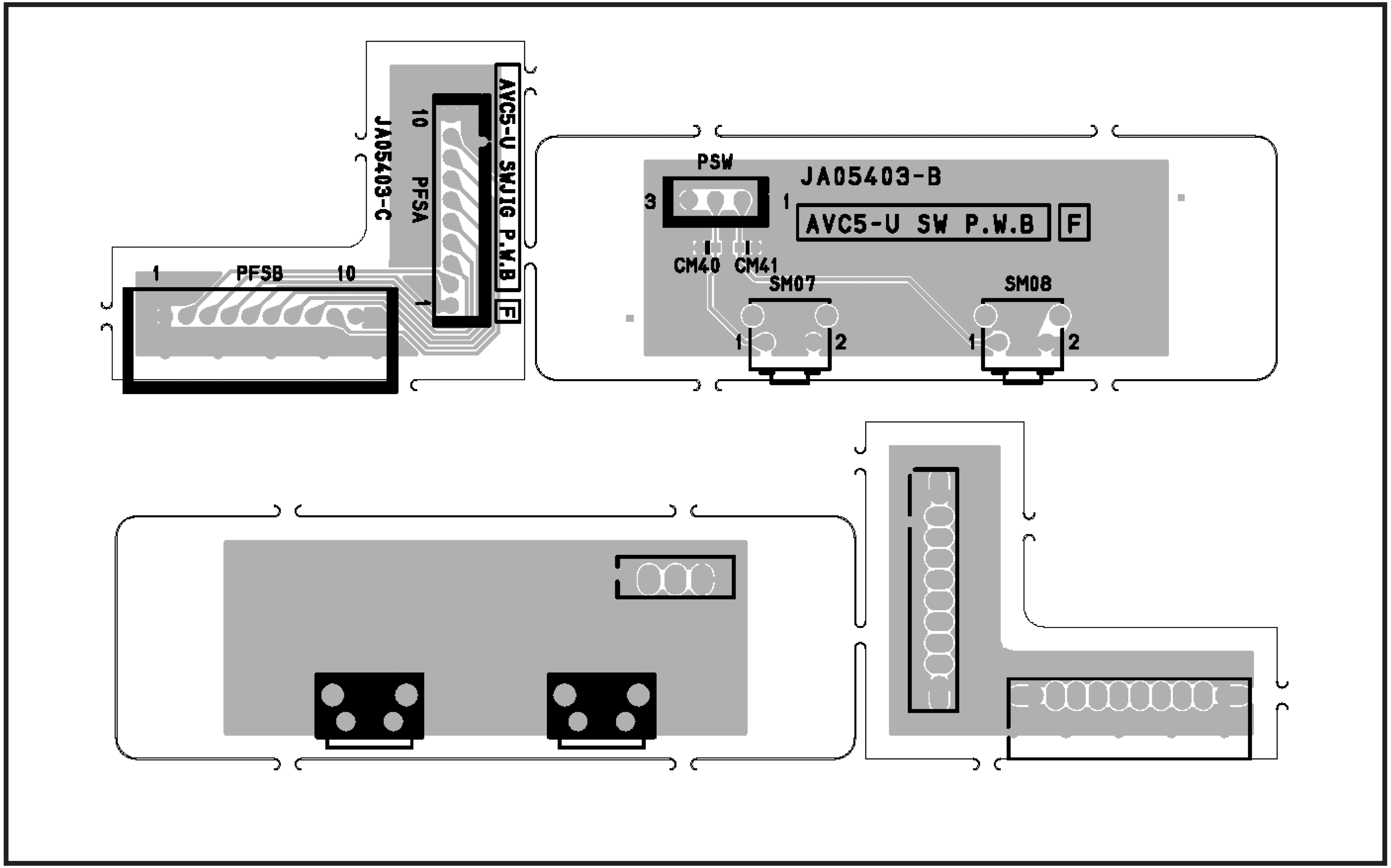
PRINTED CIRCUIT BOARDS

SW P.W.B. - SS


AVC5-U SWJIG P.W.B
F
JA05403-C
10
PFSA
1
1
PFSB
10
PSW
3
1
JA05403-B
AVC5-U SW P.W.B
F
CM40
CM41
SM07
SM08
1
2
1
2

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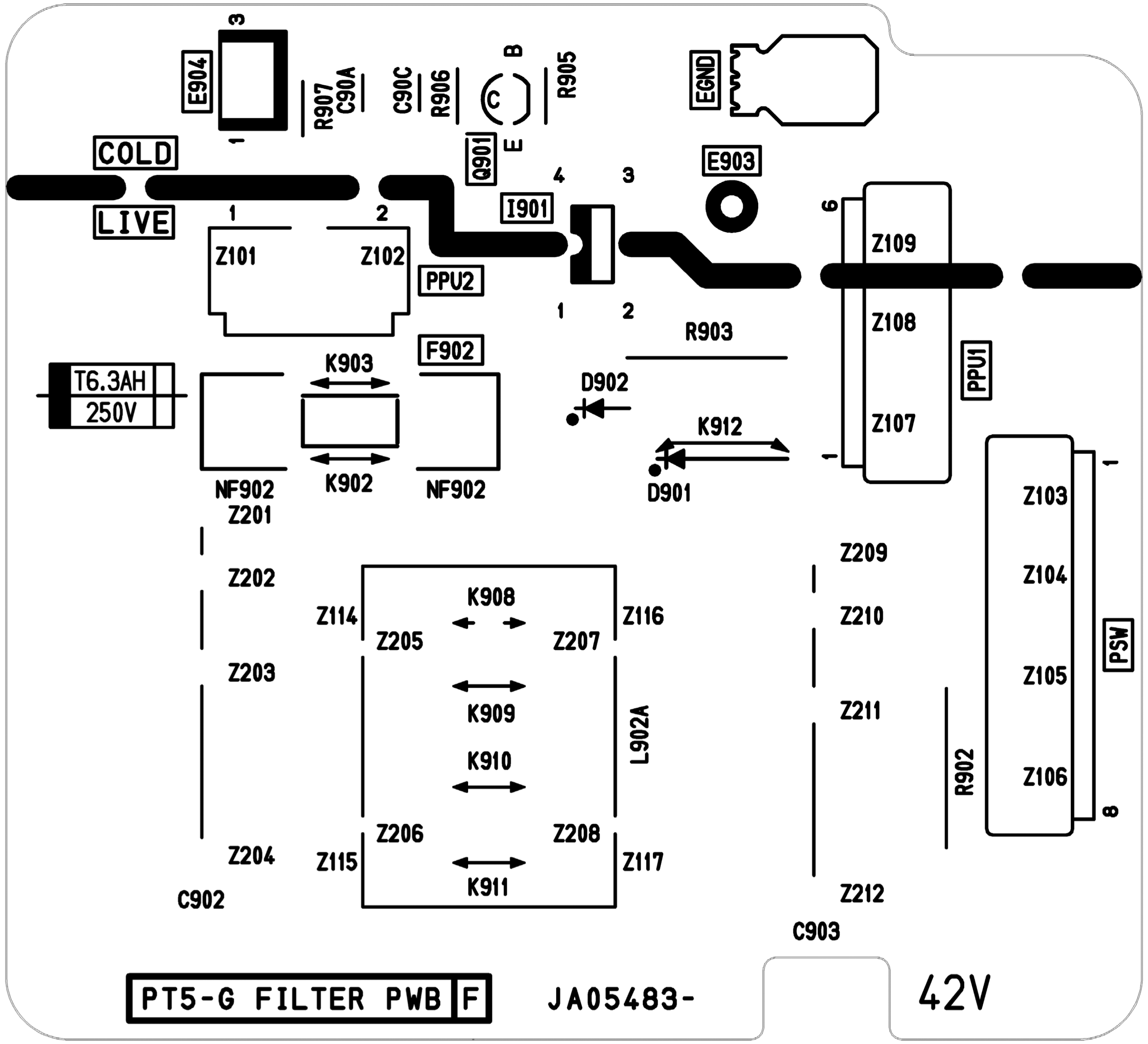
FILTER P.W.B. - CS


E904
R907
C90A
C90C
R906
B
R905
EGND
COLD
LIVE
Q901
E
4
3
I901
E903
1
2
Z101
Z102
PPU2
1
2
R903
9
Z109
Z108
PPU1
Z107
T6.3AH
250V
K903
F902
D902
K912
D901
NF902
K902
NF902
Z201
Z202
Z203
Z204
C902
Z114
Z205
K908
Z207
Z116
K909
K910
L902A
Z206
Z208
Z115
Z117
K911
Z209
Z210
Z211
Z212
C903
R902
Z103
Z104
Z105
Z106
PSW
8
PT5-G FILTER PWB F
JA05483-
42V

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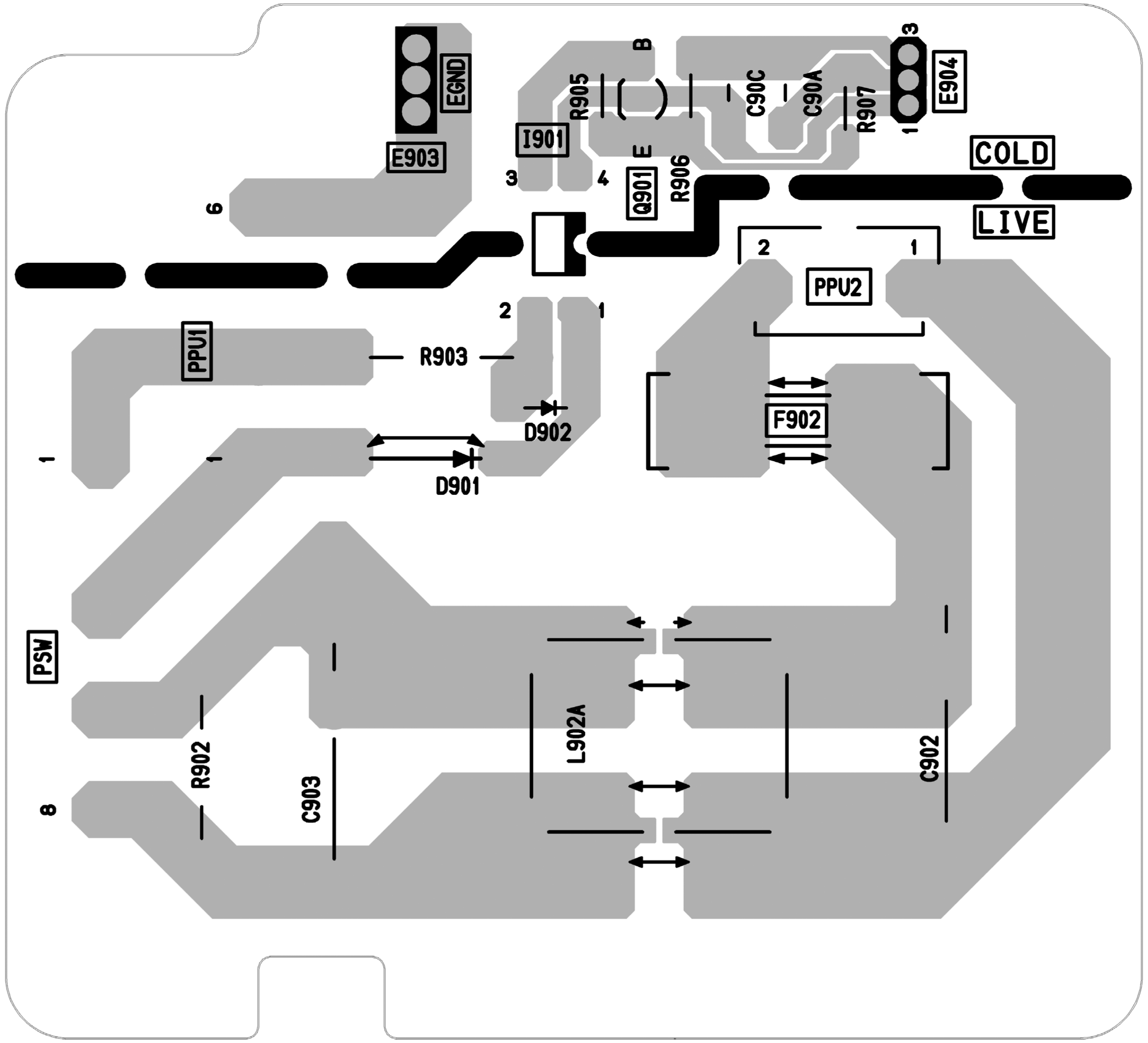
FILTER P.W.B. - SS


EGND
E903
R905
I901
B
E
Q901
R906
C90C
C90A
R907
E904
3
1
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LIVE
6
3
4
2
1
2
1
PPU2
PPU1
R903
D902
D901
F902
1
1
PSW
R902
C903
L902A
C902
8

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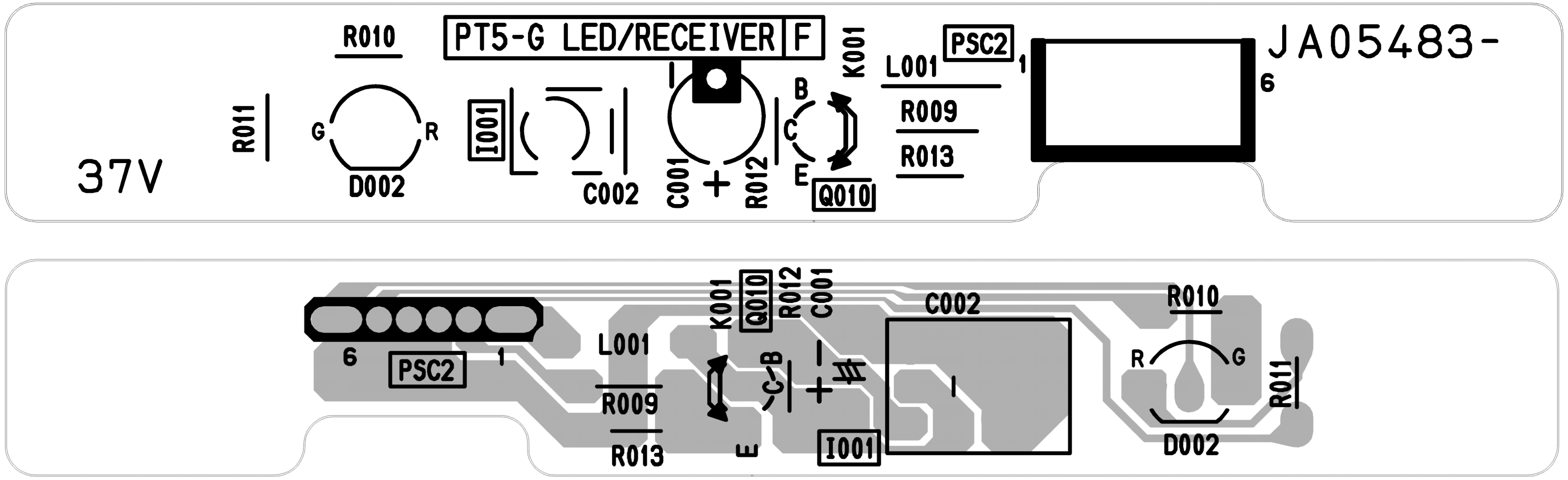
LED P.W.B.


PT5-G LED/RECEIVER F
JA05483-
37V
R010
R011
G
R
D002
I001
C002
C001
R012
K001
B
C
E
Q010
L001
R009
R013
PSC2
1
6

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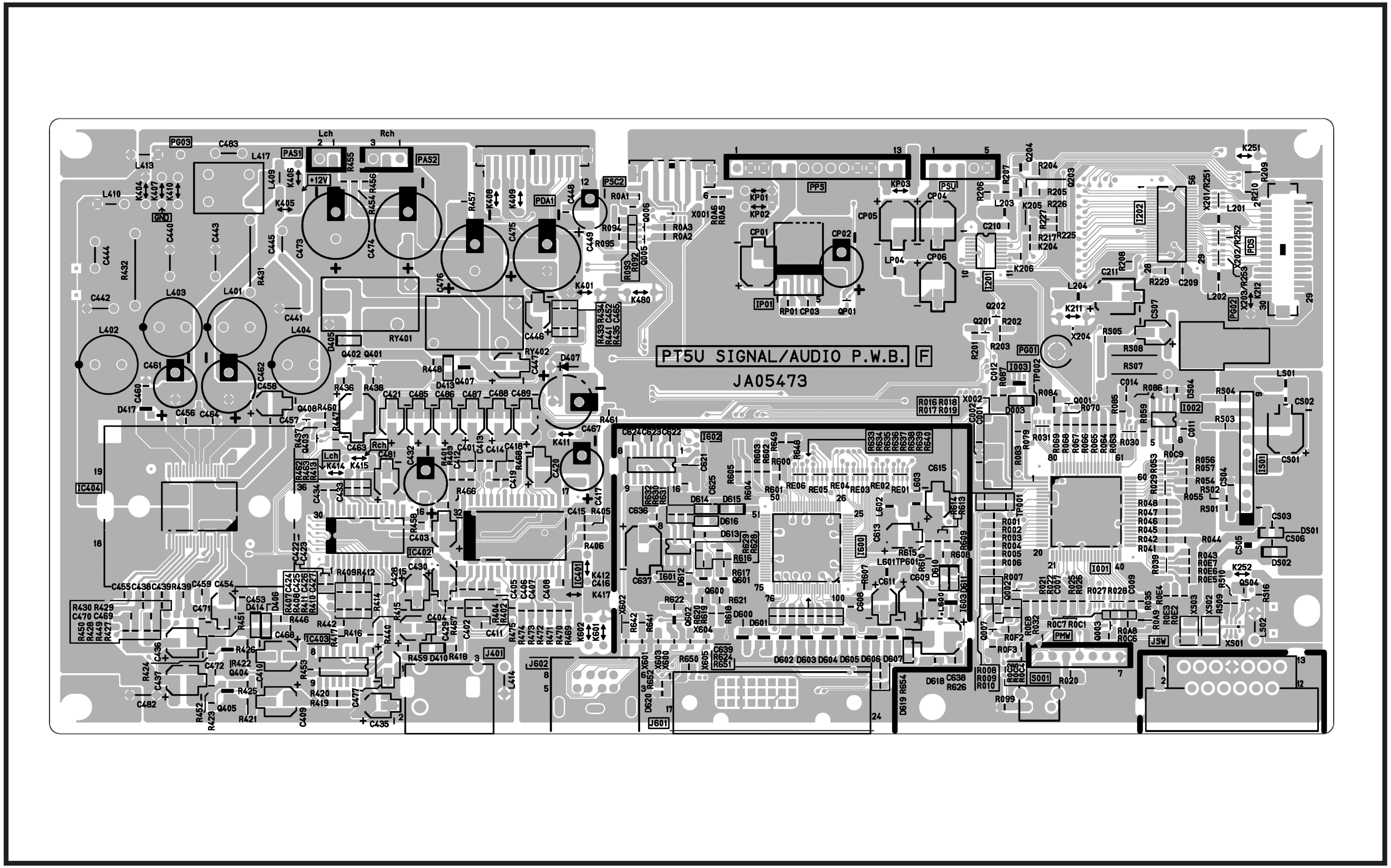
SIGNAL/AUDIO P.W.B. - CS


PT5U SIGNAL/AUDIO P.W.B. F
JA05473
Lch
Rch
+12V
GND
PG03
PAS1
PAS2
PDA1
PSC2
PPS
PSU
PG01
PG02
PDS
PMW
IC401
IC402
IC403
IC404
I601
I602
I603
I600
I001
I002
I201
I202
IS01
J401
J601
J602
JSW
S001
RY401
RY402
LS01
X001
X002
X204
X501
X502
X503
X601
X602
X603
X604
X605

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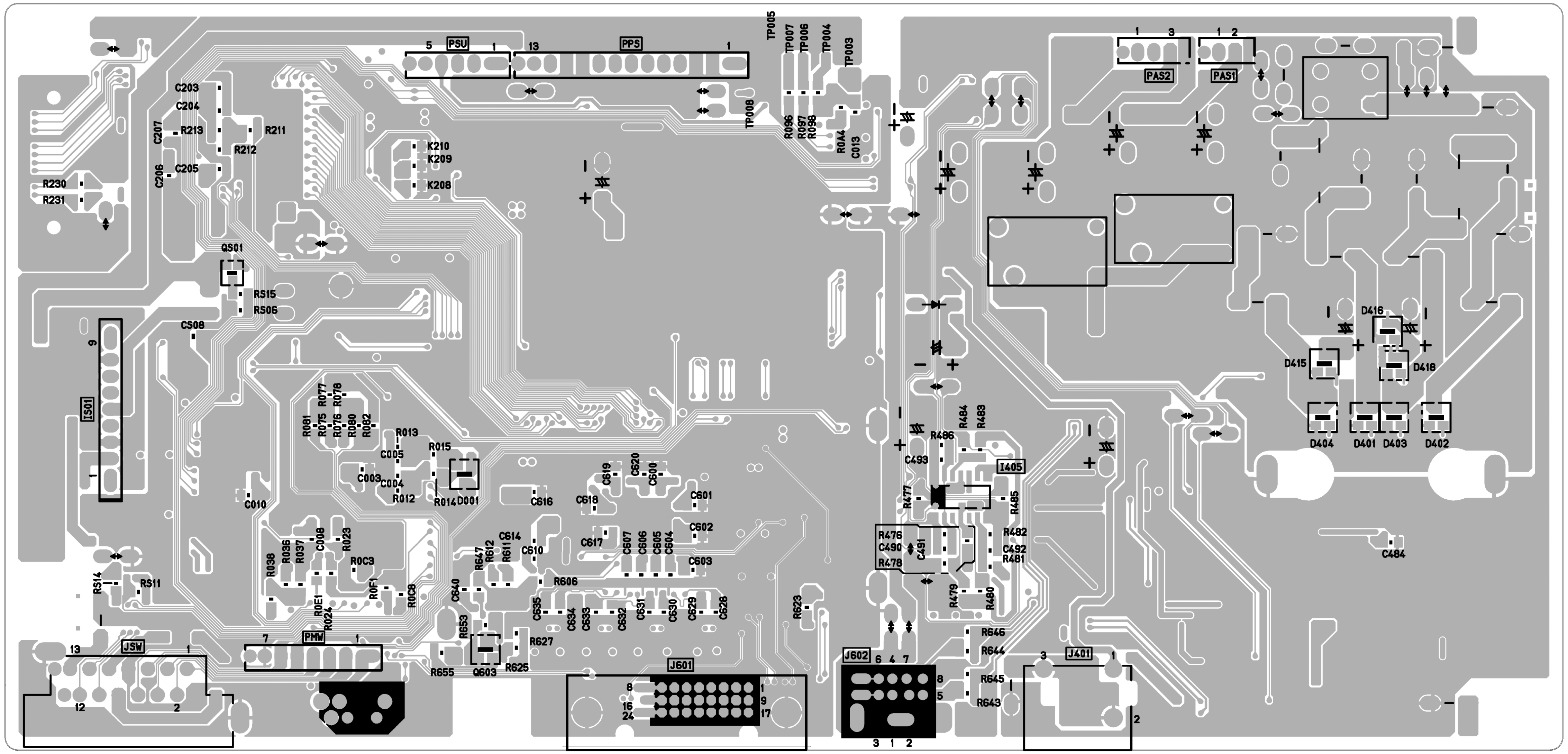
PRINTED CIRCUIT BOARDS

SIGNAL/AUDIO P.W.B. - SS


PSU
PPS
PAS2
PAS1
TP005
TP007
TP006
TP004
TP003
TP008
R096
R097
R098
R0A4
C013
C203
C204
C207
R213
R211
R212
C206
C205
R230
R231
K210
K209
K208
Q501
R515
R506
C508
IS01
R081
R075
R077
R076
R078
R080
R082
R013
R015
C005
C003
C004
R012
R014
D001
C010
C616
C618
C619
C620
C600
C601
C602
C603
C614
C610
C617
C607
C606
C605
C604
R606
R647
R612
R611
C640
C635
C634
C633
C632
C631
C630
C629
C628
R653
R627
R625
R655
Q603
R623
R038
R036
R037
C008
R023
R0C3
R0E1
R024
R0F1
R0C9
R514
R511
JSW
PMW
J601
J602
J401
R484
R483
R486
C493
I405
R477
R485
R476
C490
C491
R478
R482
C492
R481
R479
R480
R646
R644
R645
R643
D416
D415
D418
D404
D401
D403
D402
C484

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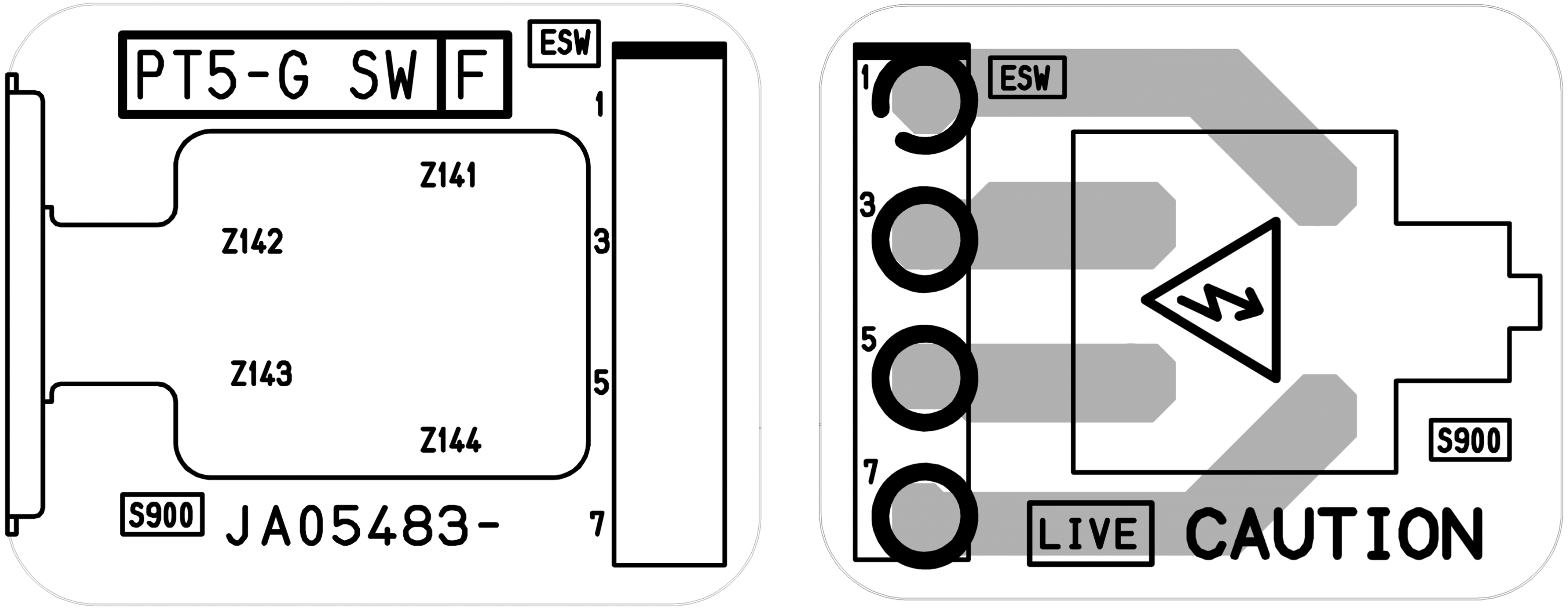
SW P.W.B.


PT5-G SW
F
ESW
1
3
5
7
Z141
Z142
Z143
Z144
S900
JA05483-
ESW
1
3
5
7
S900
LIVE
CAUTION

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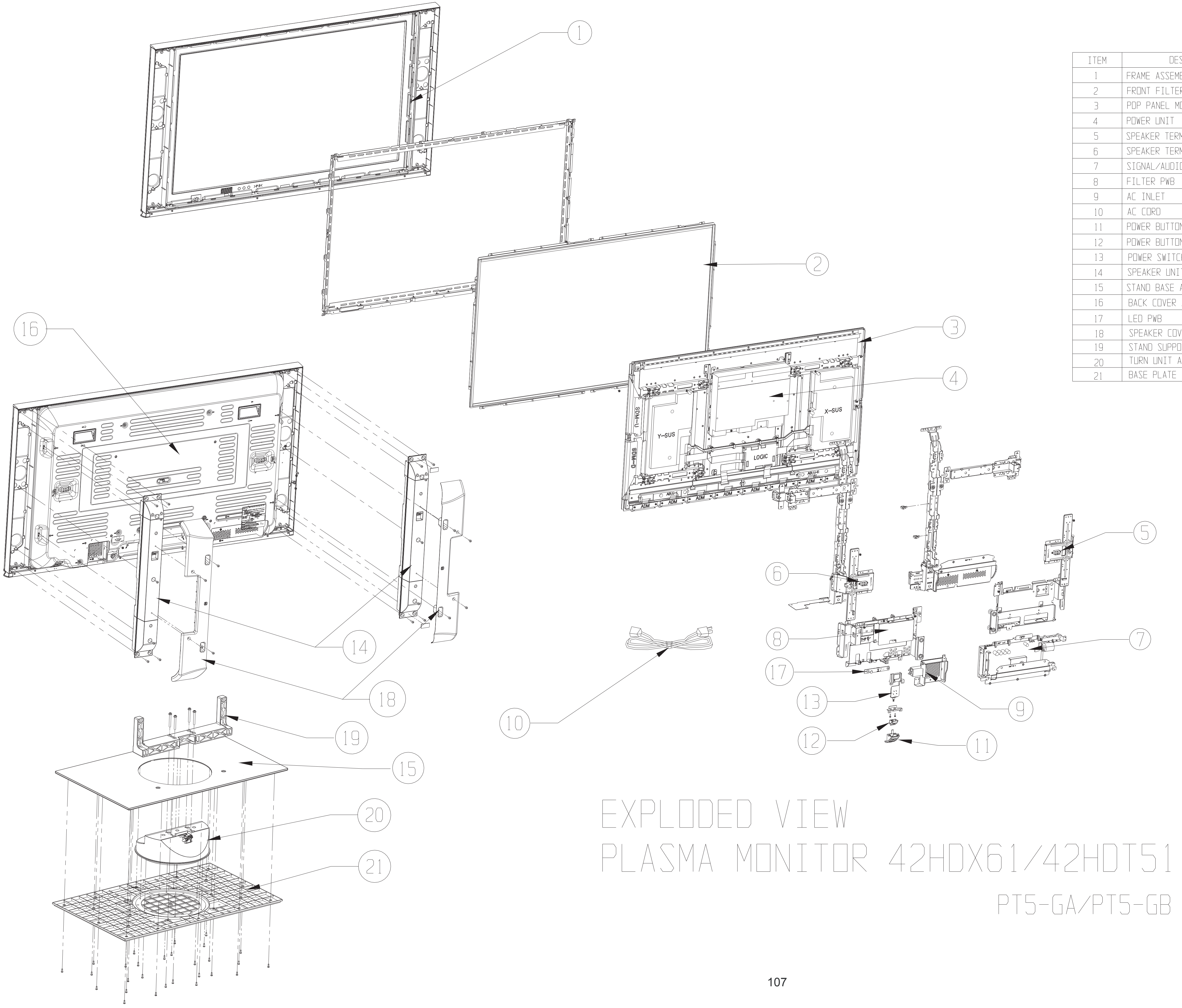
ITEM	DESCRIPTION	42HDX61	42HDT51
1	FRAME ASSEMBLY	QD38684	QD38683
2	FRONT FILTER	KS06551K	KS06492K
3	PDP PANEL MODULE	DD00611K	DD00611K
4	POWER UNIT	HA01262	HA01262
5	SPEAKER TERMINAL	JP07741	JP07741
6	SPEAKER TERMINAL	JP07741	JP07741
7	SIGNAL/AUDIO	JP07731	JP07731
8	FILTER PWB	JP07741	JP07741
9	AC INLET	EP00013	EP00013
10	AC CORD	EV01841	EV01841
11	POWER BUTTON HOLDER	PH31142	PH31142
12	POWER BUTTON	PC05361	PC05361
13	POWER SWITCH	JP07741	JP07741
14	SPEAKER UNITS	GM01501	GM01501
15	STAND BASE ASSY	QJ01472	QJ01471
16	BACK COVER ASSEMBLY	QA02684K	QA02684K
17	LED PWB	JP07741	JP07741
18	SPEAKER COVER	PH34591	PH34591
19	STAND SUPPORT	QJ01422	QJ01422
20	TURN UNIT ASSY	QJ01412K	QJ01411K
21	BASE PLATE	QJ01392	QJ01392

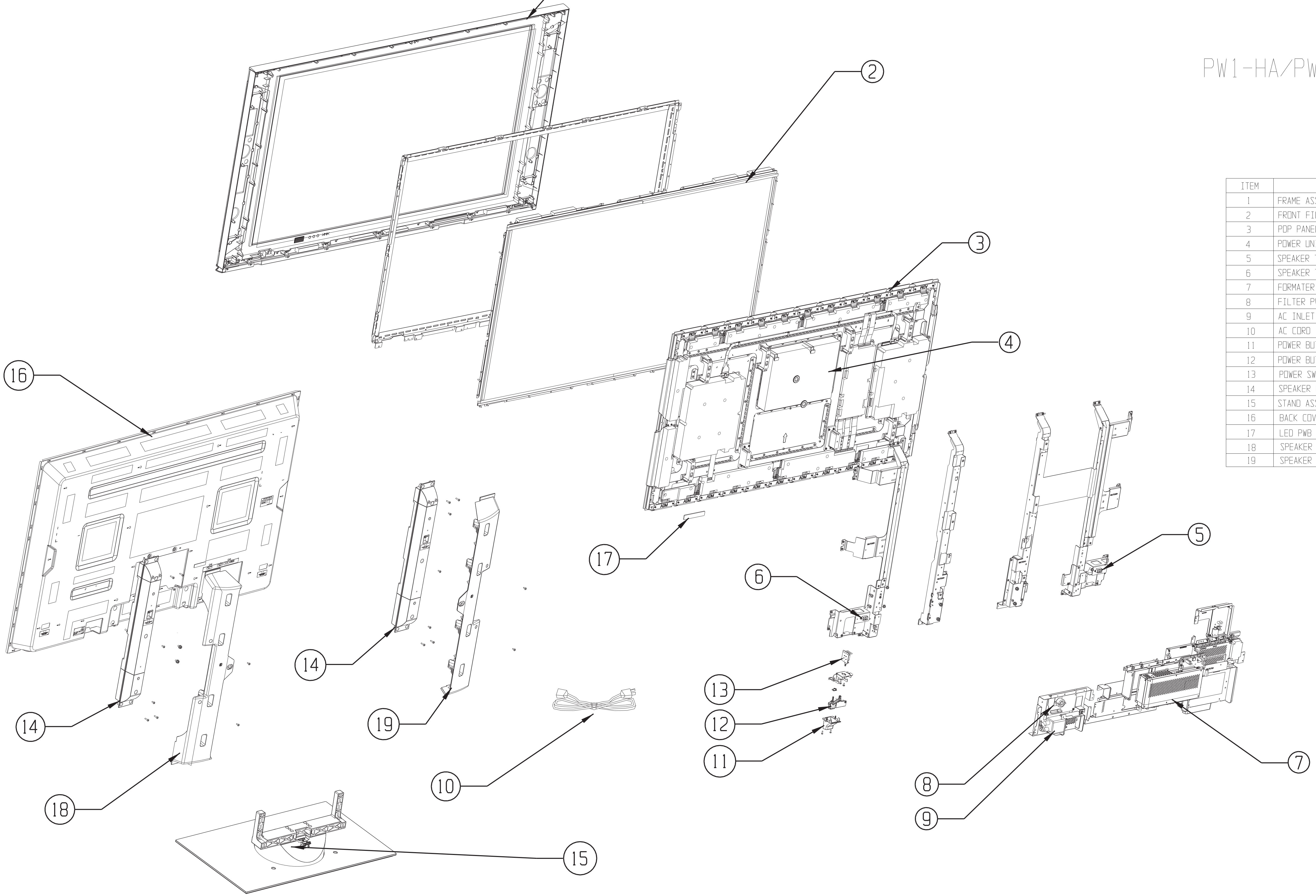


EXPLODED VIEW
PLASMA MONITOR 42HDX61/42HDT51

PT5-GA/PT5-GB

EXPLODED VOEW
PLASMA MONITOR 55HDX61/55HDT51

PW1-HA/PW1-HB



ITEM	DESCRIPTION	55HDT51	55HDX61
1	FRAME ASSEMBLY	QD38701	QD38702
2	FRONT FILTER	KS07221K	KS07223K
3	PDP PANEL MODULE	DD00621K	DD00621K
4	POWER UNIT	HA01371	HA01371
5	SPEAKER TERMINAL	JP07661	JP07661
6	SPEAKER TERMINAL	JP07661	JP07661
7	FORMATER UNIT	CS00884	CS00884
8	FILTER PWB	JP07661	JP07661
9	AC INLET	EP00261	EP00261
10	AC CORD	EV01841	EV01841
11	POWER BUTTON HOLDER	PH34381	PH34381
12	POWER BUTTON	PC06081	PC06081
13	POWER SWITCH	2634733	2634733
14	SPEAKER UNITS	GM01501	GM01501
15	STAND ASSEMBLY	QJ01501	QJ01502
16	BACK COVER ASSEMBLY	QA03022K	QA03022K
17	LED PWB	JP07761	JP07761
18	SPEAKER COVER R	QD38961	QD38961
19	SPEAKER COVER L	QD38961	QD38961

REPLACEMENT PARTS LIST

PRODUCT SERVICE NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

ABBREVIATIONS

Capacitors:
- AL: Aluminum Electrolytic
- CD: Ceramic Disc
- EL: Electrolitic
- PF: Polyester Film
- PP: Polypropylene
- PL: Plastic
- TA: Tantalum
- PR: Paper
- TM: Trimmer
- MC: Mylar

Resistors:
- CF: Carbon Film
- CC: Carbon Composition
- MF: Metal Oxide
- VR: Variable Resistor
- WW: Wire Wound
- FR: Fuse Resistor
- MG: Metal Grazed

Semiconductors:
- TR: Transistor
- DI: Diode
- ZD: Zener Diode
- VA: Varistor
- TH: Termistor
- IC: Integrated Circuit

The second number in the component (Symbol) designates the Circuit Location. The following identifies these Circuits.	
3	Tuners
4	A/V Selector Signal 2 of 5
5	Y Pr/Pb Signal 3 of 5
6	Vertical Deflection
7	Horizontal Drive & Side Pin Deflection
8	CRT Out
A	Audio Signal 5 of 5
B	Sub Deflection
E	Velocity Modulation CRT PWB
F	Dynamic Focus Deflection
H	Horizontal Deflection High Voltage
J	HDMI
K	Convergence
L	Sensor
M	Front Control
N	Sweep Loss Deflection
P	Power Supply
V, W, X	3D Y/C Signal 5 of 5
0, 1, 2	Microprocessor Signal 1 of 5
R, G, B	Out Signal 5 of 5 Z

SYMBOL NO.	PART NO.	PART DESCRIPTION
		(MONITOR)
		SIGNAL/AUDIO PWB
		CAPACITORS
C001	0893113R	CAP 1608CHIP 10PFCCH 50V TAPE
C002	0893113R	CAP 1608CHIP 10PFCCH 50V TAPE
C003	AA01802R	CCC103K50-B-16CTMCH18
C004	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C005	AA01802R	CCC103K50-B-16CTMCH18
C008	AA01802R	CCC103K50-B-16CTMCH18
C010	AA01802R	CCC103K50-B-16CTMCH18
C011	AA01802R	CCC103K50-B-16CTMCH18
C012	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C203	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C204	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C205	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C206	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C207	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C210	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C211	AD00623R	CEC101M06-EWMT 105
C401	0893135R	CAP 1608CHIP 470PFJCH 50V TAPE
C402	0893135R	CAP 1608CHIP 470PFJCH 50V TAPE
C403	AD00638R	CEC4R7M35-EWMT 105
C404	AD00638R	CEC4R7M35-EWMT 105
C405	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C406	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C407	0893211R	CAP 1608CHIP 1500PFKB 50V TAPE
C408	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C409	AD00652R	CEC4R7M50-EWMT 105
C410	AD00652R	CEC4R7M50-EWMT 105
C411	AA01128R	CERAMIC CAPACITOR(0.33UF 10V)
C412	0893177R	CAP.CHIP-CERAMIC 68000PF 16V TAPE
C413	0893177R	CAP.CHIP-CERAMIC 68000PF 16V TAPE
C414	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C415	0893129R	CAP 1608CHIP 180PFJCH 50V TAPE
C416	0893129R	CAP 1608CHIP 180PFJCH 50V TAPE
C417	0800344R	CAP.-ELECTRO. 330UF-M(SMG) 16V
C418	0893211R	CAP 1608CHIP 1500PFKB 50V TAPE

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PRODUCT SERVICE NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	PART DESCRIPTION
C419	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C420	AD00638R	CEC4R7M35-EWMT 105
C421	AD00638R	CEC4R7M35-EWMT 105
C422	AA01814R	CCC104K25-B-16CT
C423	AA01814R	CCC104K25-B-16CT
C424	AA01814R	CCC104K25-B-16CT
C425	AA01814R	CCC104K25-B-16CT
C426	AA01814R	CCC104K25-B-16CT
C427	AA01814R	CCC104K25-B-16CT
C428	AA01802R	CCC103K50-B-16CTMCH18
C429	AD00648R	CEC1R0M50-EWMT 105
C430	AD00629R	CEC100M16-EWMT 105
C432	0800344R	CAP.-ELECTRO. 330UF-M(SMG) 16V
C435	AD00629R	CEC100M16-EWMT 105
C436	AD00652R	CEC4R7M50-EWMT 105
C437	AD00652R	CEC4R7M50-EWMT 105
C438	0893127R	CAP 1608CHIP 120PFJCH 50V TAPE
C439	0893127R	CAP 1608CHIP 120PFJCH 50V TAPE
C440	0880207R	CAP.-POLYESTER 1.0UF-J 50V
C441	0880207R	CAP.-POLYESTER 1.0UF-J 50V
C442	0880207R	CAP.-POLYESTER 1.0UF-J 50V
C443	0880207R	CAP.-POLYESTER 1.0UF-J 50V
C444	0880198R	CAP.-PLOY. 0.22UF-J 50V
C445	0880198R	CAP.-PLOY. 0.22UF-J 50V
C446	AD00629R	CEC100M16-EWMT 105
C447	AD00629R	CEC100M16-EWMT 105
C452	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C453	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C454	AD00648R	CEC1R0M50-EWMT 105
C455	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C456	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C457	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C458	AD00648R	CEC1R0M50-EWMT 105
C459	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C460	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C462	0800361N	CAP.-ELECTRO 1000UF 16V
C463	AD00632R	CEC470M16-EWMT 105
C464	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C467	0800361N	CAP.-ELECTRO 1000UF 16V
C468	AA01101R	CERAMIC CAPACITOR(1UF 10V-F)
C473	AL01843R	2200UF 10V ALUMINIUM ELECTROLYTIC CAPACITOR
C474	AL01843R	2200UF 10V ALUMINIUM ELECTROLYTIC CAPACITOR
C475	AL01843R	2200UF 10V ALUMINIUM ELECTROLYTIC CAPACITOR
C476	AL01843R	2200UF 10V ALUMINIUM ELECTROLYTIC CAPACITOR
C481	AD00629R	CEC100M16-EWMT 105
C482	0880009R	CAP.-POLYESTER 0.01UF-K 50V
C484	0893217R	CAP 1608CHIP 4700PFKB 50V TAPE
C485	AD00638R	CEC4R7M35-EWMT 105
C486	AD00638R	CEC4R7M35-EWMT 105
C487	AD00638R	CEC4R7M35-EWMT 105
C488	AD00638R	CEC4R7M35-EWMT 105
C489	AD00638R	CEC4R7M35-EWMT 105
C600	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C601	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C602	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C603	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C604	AA01802R	CCC103K50-B-16CTMCH18
C605	AA01802R	CCC103K50-B-16CTMCH18
C606	AA01802R	CCC103K50-B-16CTMCH18
C607	AA01802R	CCC103K50-B-16CTMCH18
C608	AA01802R	CCC103K50-B-16CTMCH18
C609	AD00629R	CEC100M16-EWMT 105
C610	AA01802R	CCC103K50-B-16CTMCH18
C611	AD00629R	CEC100M16-EWMT 105
C613	AD00629R	CEC100M16-EWMT 105
C614	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C615	AD00629R	CEC100M16-EWMT 105
C616	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C617	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C618	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C619	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C620	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C621	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C622	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C623	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
C624	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
C625	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CP01	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
CP02	AL01855R	220UF 25V ALUMINIUM ELECTROLYT
CP04	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
CP05	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
CP06	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
CS01	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
CS04	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CS07	AD00629R	CEC100M16-EWMT 105
CS08	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)
		DIODES
D001	2333121R	DIO-1S2835(T2B)
D003	CC00003R	DIODE.CHIP 1SS355
D401	CC00632R	DIODE.CHIP RB491D (20V)
D402	CC00632R	DIODE.CHIP RB491D (20V)
D403	CC00632R	DIODE.CHIP RB491D (20V)
D404	CC00632R	DIODE.CHIP RB491D (20V)
D405	CC00003R	DIODE.CHIP 1SS355
D406	CC00003R	DIODE.CHIP 1SS355
D407	2339491M	DIODE AM01Z (200 TAPE) 1A
D410	CC00824R	ZENER.CHIP UDZ 6.2B
D413	CC00822R	ZENER.CHIP UDZ 5.1B
D414	CC00822R	ZENER.CHIP UDZ 5.1B
D600	CC10721R	DIODE CHIP DA204K-TPTX
D601	CC10721R	DIODE CHIP DA204K-TPTX
D602	CC10721R	DIODE CHIP DA204K-TPTX
D603	CC10721R	DIODE CHIP DA204K-TPTX
D604	CC10721R	DIODE CHIP DA204K-TPTX
D605	CC10721R	DIODE CHIP DA204K-TPTX
D606	CC10721R	DIODE CHIP DA204K-TPTX
D607	CC10721R	DIODE CHIP DA204K-TPTX
D610	CC00003R	DIODE.CHIP 1SS355
D611	CC00003R	DIODE.CHIP 1SS355
D612	CC00142R	CHIP DIODE RD5.1UM(B2-T)
D613	CC00142R	CHIP DIODE RD5.1UM(B2-T)
DS01	CC00003R	DIODE.CHIP 1SS355
DS02	CC00003R	DIODE.CHIP 1SS355
DS04	CC00142R	CHIP DIODE RD5.1UM(B2-T)
EPG02	EF09587	CO-01T-A0R0-201
		INTEGRATED CIRCUITS
I001	CK06571U	DIGITAL MONOLITHIC IC (HD64F3397)
I002	CK32541R	DIGITAL MONOLITHIC IC (BR24C08AF-W)
I003	CK37052R	ANALOG MONOLITHIC IC(BD4742G)
I201	CK32661R	DIGITAL MONOLITHIC IC (HD74LVC244AT)
I202	CK32072R	DIGITAL MONOLITHIC IC (THC63LVDM83R)
I600	CK37892U	DIGITAL MONOLITHIC IC (SII169C
I602	CK04681R	DIGITAL MONOLITHIC IC (DS14C232CM)
I603	CK37053R	RESET IC BD4727G
IC401	CK39281R	ANALOG MONOLITHIC IC(NJW1136)
IC402	CK35311R	NJM2192AM
IC403	CK31991R	ANALOG MONOLITHIC IC BU4052BCF-E2
IC404	CK39291R	ANALOG MONOLITHIC IC(TA2021)
IP01	CK38375R	DIGITAL MONO IC SI-3033KM
IS01	CP08241U	ANALOG MONOLITHIC IC (BA6956AN)
		COILS
L201	BA00892R	LBC2518 CHIP COIL 47UH
L202	BA00892R	LBC2518 CHIP COIL 47UH
L203	BA00892R	LBC2518 CHIP COIL 47UH
L204	BA00892R	LBC2518 CHIP COIL 47UH
L401	BH01811R	COIL 10UH 2.1A
L402	BH01811R	COIL 10UH 2.1A
L403	BH01811R	COIL 10UH 2.1A
L404	BH01811R	COIL 10UH 2.1A
L409	BZ01421R	COIL FERRITE BEAD BL02RN1-R62T4
L410	BZ01421R	COIL FERRITE BEAD BL02RN1-R62T4
L413	BZ01421R	COIL FERRITE BEAD BL02RN1-R62T4
L414	BZ01421R	COIL FERRITE BEAD BL02RN1-R62T4
L600	BA00892R	LBC2518 CHIP COIL 47UH

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
L601	BA00892R	LBC2518 CHIP COIL 47UH	R075	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
L602	BA00892R	LBC2518 CHIP COIL 47UH	R076	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
L603	BA00892R	LBC2518 CHIP COIL 47UH	R077	0790046R	RES.CHIP 1/16W 4.7K OHM
LP04	BA00892R	LBC2518 CHIP COIL 47UH	R078	0790046R	RES.CHIP 1/16W 4.7K OHM
LS02	BZ01421R	COIL FERRITE BEAD BL02RN1-R62T4	R079	0790057R	RES.CHIP 1/16W 33K OHM
			R080	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
		TRANSISTORS	R081	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
			R083	0790024R	RES.CHIP 1/16W 100 OHM
Q001	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R084	0790037R	RES.CHIP 1/16W 1.0K OHM
Q002	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R085	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
Q005	1323294R	TRS.CHIP 2SA1774 TL (R/S)	R087	0790028R	RES.CHIP 1/16W 220 OHM
Q006	1323294R	TRS.CHIP 2SA1774 TL (R/S)	R092	0790042R	RES.CHIP 1/16W 2.2K OHM
Q007	1323294R	TRS.CHIP 2SA1774 TL (R/S)	R093	0790042R	RES.CHIP 1/16W 2.2K OHM
Q201	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R094	0790046R	RES.CHIP 1/16W 4.7K OHM
Q202	CA00981R	TRS.CHIP DTC114EE TL	R095	0790046R	RES.CHIP 1/16W 4.7K OHM
Q203	CA01011R	TRS.CHIP 2SK3018	R096	0790034R	RES.CHIP 1/16W 560 OHM
Q204	CA01011R	TRS.CHIP 2SK3018	R097	0790042R	RES.CHIP 1/16W 2.2K OHM
Q401	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R098	0790037R	RES.CHIP 1/16W 1.0K OHM
Q402	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R099	0790037R	RES.CHIP 1/16W 1.0K OHM
Q403	CA00981R	TRS.CHIP DTC114EE TL	R0A1	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
Q404	CA00771R	TRS.CHIP DTC323TK	R0A6	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
Q405	CA00771R	TRS.CHIP DTC323TK	R0A8	0790024R	RES.CHIP 1/16W 100 OHM
Q407	CA00771R	TRS.CHIP DTC323TK	R0A9	0790051R	RES.CHIP 1/16W 10K OHM
Q408	CA00981R	TRS.CHIP DTC114EE TL	R0C2	0790059R	RES.CHIP 1/16W 47K OHM
Q600	CA01011R	TRS.CHIP 2SK3018	R0C4	0790051R	RES.CHIP 1/16W 10K OHM
Q601	CA01011R	TRS.CHIP 2SK3018	R0C5	0790037R	RES.CHIP 1/16W 1.0K OHM
Q602	1323392	TRS.CHIP UMX1N	R0C7	0790051R	RES.CHIP 1/16W 10K OHM
QS01	2316231R	TRS 2SA1576-T107-R	R0C9	0790045R	RES.CHIP 1/16W 3.9K OHM
QS04	CA00983R	TRS.CHIP DTC144EE TL	R0E2	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
			R0E3	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
		RESISTORS	R0E4	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
			R0E8	0790051R	RES.CHIP 1/16W 10K OHM
R001	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R0F1	0790059R	RES.CHIP 1/16W 47K OHM
R002	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R0F3	0790059R	RES.CHIP 1/16W 47K OHM
R004	0790024R	RES.CHIP 1/16W 100 OHM	R201	0790051R	RES.CHIP 1/16W 10K OHM
R005	0790024R	RES.CHIP 1/16W 100 OHM	R202	0790051R	RES.CHIP 1/16W 10K OHM
R006	0790024R	RES.CHIP 1/16W 100 OHM	R203	0790051R	RES.CHIP 1/16W 10K OHM
R007	0790024R	RES.CHIP 1/16W 100 OHM	R204	0790051R	RES.CHIP 1/16W 10K OHM
R008	0790037R	RES.CHIP 1/16W 1.0K OHM	R205	0790051R	RES.CHIP 1/16W 10K OHM
R009	0790037R	RES.CHIP 1/16W 1.0K OHM	R206	0790024R	RES.CHIP 1/16W 100 OHM
R014	0790046R	RES.CHIP 1/16W 4.7K OHM	R207	0790024R	RES.CHIP 1/16W 100 OHM
R015	0790046R	RES.CHIP 1/16W 4.7K OHM	R208	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R016	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R210	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R017	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R212	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R018	0790028R	RES.CHIP 1/16W 220 OHM	R217	0790051R	RES.CHIP 1/16W 10K OHM
R019	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R227	0790047R	RES.CHIP 1/16W 5.6K OHM
R020	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R229	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R022	0790024R	RES.CHIP 1/16W 100 OHM	R230	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R023	0790024R	RES.CHIP 1/16W 100 OHM	R231	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R024	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R401	0790028R	RES.CHIP 1/16W 220 OHM
R025	0790024R	RES.CHIP 1/16W 100 OHM	R402	0790028R	RES.CHIP 1/16W 220 OHM
R026	0790024R	RES.CHIP 1/16W 100 OHM	R403	0790068R	RES.CHIP 1/16W 220K OHM
R027	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)	R404	0790068R	RES.CHIP 1/16W 220K OHM
R028	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)	R405	0790024R	RES.CHIP 1/16W 100 OHM
R029	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)	R406	0790024R	RES.CHIP 1/16W 100 OHM
R030	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)	R407	0790061R	RES.CHIP 1/16W 56K OHM
R032	0790024R	RES.CHIP 1/16W 100 OHM	R408	0196096R	RES.-1608CHIP 1/16W 13K-J TAPE
R035	0790024R	RES.CHIP 1/16W 100 OHM	R409	0196123R	RES.-1608CHIP 1/16W 160K-J TAPE
R036	0790051R	RES.CHIP 1/16W 10K OHM	R410	0196106R	RES 1608 CHIP 1/16W 36KJ TAPE
R039	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)	R411	0196091R	RES.-1608CHIP 1/16W 9.1K-J TAPE
R042	0790024R	RES.CHIP 1/16W 100 OHM	R412	0196119R	RES.-1608CHIP 1/16W 110K-J TAPE
R043	0790051R	RES.CHIP 1/16W 10K OHM	R413	0790051R	RES.CHIP 1/16W 10K OHM
R044	0790051R	RES.CHIP 1/16W 10K OHM	R414	0790036R	RES.CHIP 1/16W 820 OHM
R046	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R415	0790036R	RES.CHIP 1/16W 820 OHM
R047	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R416	0196077R	RES.-1608CHIP 1/16W 2.4K-J TAPE
R048	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R417	0790047R	RES.CHIP 1/16W 5.6K OHM
R053	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)	R418	0790037R	RES.CHIP 1/16W 1.0K OHM
R054	0790046R	RES.CHIP 1/16W 4.7K OHM	R419	0790037R	RES.CHIP 1/16W 1.0K OHM
R055	0790046R	RES.CHIP 1/16W 4.7K OHM	R420	0790037R	RES.CHIP 1/16W 1.0K OHM
R059	0790045R	RES.CHIP 1/16W 3.9K OHM	R421	0790048R	RES.CHIP 1/16W 6.8K OHM
R063	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R422	0790048R	RES.CHIP 1/16W 6.8K OHM
R064	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R423	0790037R	RES.CHIP 1/16W 1.0K OHM
R065	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R424	0790037R	RES.CHIP 1/16W 1.0K OHM
R066	0790024R	RES.CHIP 1/16W 100 OHM	R425	0790037R	RES.CHIP 1/16W 1.0K OHM
R068	0790051R	RES.CHIP 1/16W 10K OHM	R426	0790037R	RES.CHIP 1/16W 1.0K OHM

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SYMBOL NO.	PART NO.	PART DESCRIPTION
R427	AQ00226R	RES.CHIP 16K OHM TAPE
R428	AQ00226R	RES.CHIP 16K OHM TAPE
R429	AQ00237R	RES.CHIP 1/16W 43K OHM TAPE
R430	AQ00237R	RES.CHIP 1/16W 43K OHM TAPE
R431	0113701M	RESISTOR CARBON FILM SRD1/2P-B 10-J
R432	0113701M	RESISTOR CARBON FILM SRD1/2P-B 10-J
R433	0790051R	RES.CHIP 1/16W 10K OHM
R434	0790051R	RES.CHIP 1/16W 10K OHM
R435	0790042R	RES.CHIP 1/16W 2.2K OHM
R436	0790064R	RES.CHIP 1/16W 100K OHM
R437	0790024R	RES.CHIP 1/16W 100 OHM
R438	0790059R	RES.CHIP 1/16W 47K OHM
R439	0790049R	RES.CHIP 1/16W 8.2K OHM
R440	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R441	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R442	0790052R	RES.CHIP 1/16W 12K OHM
R446	0790046R	RES.CHIP 1/16W 4.7K OHM
R447	0790046R	RES.CHIP 1/16W 4.7K OHM
R448	0790044R	RES.CHIP 1/16W 3.3K OHM
R458	0790051R	RES.CHIP 1/16W 10K OHM
R459	0790047R	RES.CHIP 1/16W 5.6K OHM
R460	0790024R	RES.CHIP 1/16W 100 OHM
R461	0790051R	RES.CHIP 1/16W 10K OHM
R462	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R463	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R468	0790064R	RES.CHIP 1/16W 100K OHM
R470	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R471	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R473	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R475	0790046R	RES.CHIP 1/16W 4.7K OHM
R600	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R602	0790017R	RES.CHIP 1/16W 33 OHM
R603	0790017R	RES.CHIP 1/16W 33 OHM
R604	0790017R	RES.CHIP 1/16W 33 OHM
R605	0790017R	RES.CHIP 1/16W 33 OHM
R606	0790032R	RES.CHIP 1/16W 390 OHM
R607	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R609	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R610	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R611	0790051R	RES.CHIP 1/16W 10K OHM
R612	0790044R	RES.CHIP 1/16W 3.3K OHM
R614	0790057R	RES.CHIP 1/16W 33K OHM
R615	0790057R	RES.CHIP 1/16W 33K OHM
R616	0790051R	RES.CHIP 1/16W 10K OHM
R617	0790051R	RES.CHIP 1/16W 10K OHM
R618	0790024R	RES.CHIP 1/16W 100 OHM
R619	0790024R	RES.CHIP 1/16W 100 OHM
R622	0790051R	RES.CHIP 1/16W 10K OHM
R623	0790051R	RES.CHIP 1/16W 10K OHM
R624	0790059R	RES.CHIP 1/16W 47K OHM
R625	0790046R	RES.CHIP 1/16W 4.7K OHM
R627	0790051R	RES.CHIP 1/16W 10K OHM
R628	0790028R	RES.CHIP 1/16W 220 OHM
R629	0790028R	RES.CHIP 1/16W 220 OHM
R633	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R634	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R635	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R636	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R637	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R638	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R639	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R640	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R641	0790031R	RES.CHIP 1/16W 330 OHM
R642	0790031R	RES.CHIP 1/16W 330 OHM
R643	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R644	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R647	0790057R	RES.CHIP 1/16W 33K OHM
R648	0790044R	RES.CHIP 1/16W 3.3K OHM
R649	0790046R	RES.CHIP 1/16W 4.7K OHM
R651	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RE01	AQ00017R	RES.CHIP 1/16W 33 OHM (4 R)
RE02	AQ00017R	RES.CHIP 1/16W 33 OHM (4 R)
RE03	AQ00017R	RES.CHIP 1/16W 33 OHM (4 R)
RE04	AQ00017R	RES.CHIP 1/16W 33 OHM (4 R)
RE05	AQ00017R	RES.CHIP 1/16W 33 OHM (4 R)
RE06	AQ00017R	RES.CHIP 1/16W 33 OHM (4 R)
RP01	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RS01	0790063R	RES.CHIP 1/16W 82K OHM
RS02	0790055R	RES.CHIP 1/16W 22K OHM
RS03	0790024R	RES.CHIP 1/16W 100 OHM
RS04	0790024R	RES.CHIP 1/16W 100 OHM
RS05	0790051R	RES.CHIP 1/16W 10K OHM
RS06	0790077R	RES.CHIP 1/16W 1.0M OHM
RS07	AT01049S	RES.MTL FLM 1W 5.6 OHM
RS08	0188093M	ES.-CARBON FLM 1/2W 1.5-J
RS09	0790051R	RES.CHIP 1/16W 10K OHM
RS10	0790051R	RES.CHIP 1/16W 10K OHM
RS11	0790051R	RES.CHIP 1/16W 10K OHM
RS14	0790051R	RES.CHIP 1/16W 10K OHM
RS15	0790037R	RES.CHIP 1/16W 1.0K OHM
X201	AQ00001R	RES.CHIP 1/16W 0 OHM
X202	AQ00001R	RES.CHIP 1/16W 0 OHM
X203	AQ00001R	RES.CHIP 1/16W 0 OHM
K204	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
K206	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
K208	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
K209	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
K210	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
		FILTERS
X001	BE00391R	SMD LC FILTER MEA3216L50R0
X002	BL00291R	OSCILLATOR (SMD-49)
X600	BK00191R	CHIP CERAMIC FILTER NFL21SP506X1C3D
X601	BK00191R	CHIP CERAMIC FILTER NFL21SP506X1C3D
X602	BK00191R	CHIP CERAMIC FILTER NFL21SP506X1C3D
X603	BK00191R	CHIP CERAMIC FILTER NFL21SP506X1C3D
X604	BK00191R	CHIP CERAMIC FILTER NFL21SP506X1C3D
X605	BK00191R	CHIP CERAMIC FILTER NFL21SP506X1C3D
XS01	BE00391R	SMD LC FILTER MEA3216L50R0
XS02	BE00412R	3218 CHIP LC FILTER
XS03	BE00412R	3218 CHIP LC FILTER
		MISCELLANEOUS
S001	2632971	TACT SWITCH SKHH
RY401	FJ00291	RELAY DQ1SU
RY402	FJ00291	RELAY DQ1SU
N401	MA01681	PDP AUDIO HEAT SINK
PAS1	2902261	PLUG PIN SUB MINI 2P
PAS2	2902262R	PLUG 03P EH TAPE
PDS	EA01093R	CPC30PH1R2V?T-DF13-W
PG02	EU01361R	TAPTY-4593ST-1
PMW	2902266R	PLUG 07P EH TAPE
PPS	2902273	PLUGPIN SUB MINI 13P
PSC2	EA00345R	CONNECTOR CPC06PH2R0VTPH-SM3
PSU	2902264R	PLUG 05P EH TAPE
J401	2672967	JAK-YKC21-1P-BLK
J601	ED04371	CONNECTOR
J602	EY01491	SOCKET YKF51-5376
JSW	ED04241	1.5MM PITCH 13P FG CONNECTOR SOCKET
		(FILTER PWB)
		CAPACITORS
C001	0800324R	CAP.-ELECTRO. 100UF-M(SMG) 6.3V
C002	0244171R	CAP.-CERAMIC 0.01UF-Z F 50V TAPE
⚠ C902	AN01448S	ACROSS CAPA 0.68UF 250V RE684
⚠ C903	AN01448S	ACROSS CAPA 0.68UF 250V RE684
C001C	0800324R	CAP.-ELECTRO. 100UF-M(SMG) 6.3V
C002C	0244171R	CAP.-CERAMIC 0.01UF-Z F 50V TAPE
C952	AN01447S	ACROSS CAPA 0.47UF 250V RE474
		DIODES
D002	CH02031R	DIODE SPR-505MVW
D491	2334304M	ZENER RD30E (B3 T2/TP/TA) SI 5MA 30.51V
D492	2334304M	ZENER RD30E (B3 T2/TP/TA) SI 5MA 30.51V

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SYMBOL NO.	PART NO.	PART DESCRIPTION
D493	2334304M	ZENER RD30E (B3 T2/TP/TA) SI 5MA 30.51V
D494	2334304M	ZENER RD30E (B3 T2/TP/TA) SI 5MA 30.51V
D002C	2343561	LED SPR-54MVW
D491	2334304M	ZENER RD30E (B3 T2/TP/TA) SI 5MA 30.51V
D492	2334304M	ZENER RD30E (B3 T2/TP/TA) SI 5MA 30.51V
D493	2334304M	ZENER RD30E (B3 T2/TP/TA) SI 5MA 30.51V
D494	2334304M	ZENER RD30E (B3 T2/TP/TA) SI 5MA 30.51V
		FUSE
⚠ F902	FN00439	HT FUSE 250V 6.3A 5.2X20MM
⚠ F952	FN00141	FUSE CES14-10A-N1
		INTEGRATED CIRCUIT / TRANSISTOR
I001	CZ01171	IC GP1UM281RK
I001C	CZ01171	IC GP1UM281RK
Q010C	2325721M	TRS. 2SC1740S (Q/R/S/E) TAPE
		COILS
L001	2123116M	COIL-AXIAL 100UH-K
L481	BZ05521	DC COM. MODE CHOKE COIL 7UH 2A
L482	BZ05521	DC COM. MODE CHOKE COIL 7UH 2A
L001C	2123116M	COIL-AXIAL 100UH-K
L481	BZ05521	DC COM. MODE CHOKE COIL 7UH 2A
L482	BZ05521	DC COM. MODE CHOKE COIL 7UH 2A
		RESISTORS
R009	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R010	0700037M	RES.-CARBON FLM 1/16W 560-JB
R011	0700038M	RES.-CARBON FLM 1/16W 680-JB
R902	AT03661M	RES.MTL GRAZD FLM 1/2W 470K
R009C	0700027M	RES.-CARBON FLM 1/16W 100-JB
R010C	0700037M	RES.-CARBON FLM 1/16W 560-JB
R011C	0700038M	RES.-CARBON FLM 1/16W 680-JB
R012C	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB
R013C	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB
R952	AT03661M	RES.MTL GRAZD FLM 1/2W 470K
RM05	0700032M	RES.-CARBON FLM 1/16W 220-JB
RM06	0700039M	RES.-CARBON FLM 1/16W 820-JB
RM07	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RM08	0700044M	RES.-CARBON FLM 1/16W 1.8K-JB
RM09	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
RM10	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB
		MISCELLANEOUS
S900	FG00241	SPW03N06SDKVA30200
Zxxx	EU01122	EYELET CG-10002 DIA 2.0
JA402	ER00061	JACK SP TERMINAL
JA403	ER00061	JACK SP TERMINAL
JA402	ER00061	JACK SP TERMINAL
JA403	ER00061	JACK SP TERMINAL
L902A	BZ05761	LINE FILTER 1MH
E491	EF09587	CO-01T-A0R0-201
E492	EF09587	CO-01T-A0R0-201
ECONT	2675283	PLG-04P2R0LPWB(PH)
EGND5	ED01651R	CONNECTOR CP-03PH2R5V
ESW	EF24011	8J VH-SDN CONNECTOR L=220MM
N002	MN03331	LED SPACER LDT-45B
NF902	FP00031R	FUSE HOLDER
NF952	FP00051	FUSE HOLDER H-0048-2
PAS3	2902261	PLUG PIN SUB MINI 2P
PAS3	2902261	PLUG PIN SUB MINI 2P
PAS4	2902262	PLUG PIN SUB MINI 3P
PAS4	2902262	PLUG PIN SUB MINI 3P
PPU1	ED02812	6P VH CONNECTOR PLUG #2,4,5 NC
PPU15	ED02812	6P VH CONNECTOR PLUG #2,4,5 NC
PPU2	ED02801	2P PLUG PIN
PPU25	ED02801	2P PLUG PIN
PSC2	2675285	PIN POST (PH 6P)
PSC2C	2675285	PIN POST (PH 6P)
PSW	ED02811	8P VH PLUG PIN
PSW5	ED02811	8P VH PLUG PIN
		SWITCH
SM01	FE00001R	PUSH SWITCH
SM02	FE00001R	PUSH SWITCH
SM03	FE00001R	PUSH SWITCH
SM04	FE00001R	PUSH SWITCH
SM05	FE00001R	PUSH SWITCH
SM06	FE00001R	PUSH SWITCH
SM07	FE00001R	PUSH SWITCH
		(AUDIO PWB)
		CAPACITORS
C401	0893135R	CAP 1608CHIP 470PFJCH 50V TAPE
C402	0893135R	CAP 1608CHIP 470PFJCH 50V TAPE
C403	AD00447R	CEC4R7M25-EWCT
C404	AD00447R	CEC4R7M25-EWCT
C405	AA01814R	CCC104K25-B-16CT
C406	AA01814R	CCC104K25-B-16CT
C407	0893211R	CAP 1608CHIP 1500PFKB 50V TAPE
C408	AA01814R	CCC104K25-B-16CT
C409	AD00478R	CEC4R7M50-EWCT
C410	AD00478R	CEC4R7M50-EWCT
C411	AA01134R	CERAMIC CAPACITOR(0.33UF 6.3V)
C412	AA01813R	CCC223K50-B-16CT
C413	AA01812R	CCC153K50-B-16CT
C414	AA01814R	CCC104K25-B-16CT
C415	0893129R	CAP 1608CHIP 180PFJCH 50V TAPE
C416	0893129R	CAP 1608CHIP 180PFJCH 50V TAPE
C417	0800353R	CAP.-ELECTRO.470UF-M 16V
C418	0893211R	CAP 1608CHIP 1500PFKB 50V TAPE
C419	AA01814R	CCC104K25-B-16CT
C420	AD00447R	CEC4R7M25-EWCT
C421	AD00447R	CEC4R7M25-EWCT
C422	AA01814R	CCC104K25-B-16CT
C423	AA01814R	CCC104K25-B-16CT
C424	AA01814R	CCC104K25-B-16CT
C425	AA01814R	CCC104K25-B-16CT
C426	AA01814R	CCC104K25-B-16CT
C427	AA01814R	CCC104K25-B-16CT
C428	AA01802R	CCC103K50-B-16CTMCH18
C429	AD00475R	CEC010M50-EWCT
C430	AD00436R	CEC100M16-EWCT
C431	AD00436R	CEC100M16-EWCT
C432	0800344R	CAP.-ELECTRO. 330UF-M(SMG) 16V
C435	AD00436R	CEC100M16-EWCT
C436	AD00478R	CEC4R7M50-EWCT
C437	AD00478R	CEC4R7M50-EWCT
C438	0893127R	CAP 1608CHIP 120PFJCH 50V TAPE
C439	0893127R	CAP 1608CHIP 120PFJCH 50V TAPE
C440	0880207R	CAP.-POLYESTER 1.0UF-J 50V
C441	0880207R	CAP.-POLYESTER 1.0UF-J 50V
C442	0880207R	CAP.-POLYESTER 1.0UF-J 50V
C443	0880207R	CAP.-POLYESTER 1.0UF-J 50V
C444	0880198R	CAP.-PLOY. 0.22UF-J 50V
C445	0880198R	CAP.-PLOY. 0.22UF-J 50V
C446	AD00436R	CEC100M16-EWCT
C447	AD00436R	CEC100M16-EWCT
C448	0800359R	CAP.-ELECTRO. 1000UF-M 10V
C449	0800359R	CAP.-ELECTRO. 1000UF-M 10V
C450	0800359R	CAP.-ELECTRO. 1000UF-M 10V
C451	0800359R	CAP.-ELECTRO. 1000UF-M 10V
C452	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C453	AA01814R	CCC104K25-B-16CT
C454	AD00475R	CEC010M50-EWCT
C455	AA01814R	CCC104K25-B-16CT
C456	AA01814R	CCC104K25-B-16CT
C457	AA01814R	CCC104K25-B-16CT
C458	AD00475R	CEC010M50-EWCT
C459	AA01814R	CCC104K25-B-16CT
C460	AA01814R	CCC104K25-B-16CT
C461	0800353R	CAP.-ELECTRO.470UF-M 16V
C462	0800353R	CAP.-ELECTRO.470UF-M 16V

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
C463	AD00449R	CEC220M25-EWCT			**COILS**
C464	AA01814R	CCC104K25-B-16CT			
C466	AA01802R	CCC103K50-B-16CTMCH18	L401	BH01811R	COIL 10UH 2.1A
C467	0800353R	CAP.-ELECTRO.470UF-M 16V	L402	BH01811R	COIL 10UH 2.1A
C468	AA01814R	CCC104K25-B-16CT	L403	BH01811R	COIL 10UH 2.1A
C473	0800359R	CAP.-ELECTRO. 1000UF-M 10V	L404	BH01811R	COIL 10UH 2.1A
C474	0800359R	CAP.-ELECTRO. 1000UF-M 10V	L409	BZ01421R	COIL FERRITE BEAD BL02RN1-R62T4
C475	0800359R	CAP.-ELECTRO. 1000UF-M 10V	L410	BZ01421R	COIL FERRITE BEAD BL02RN1-R62T4
C476	0800359R	CAP.-ELECTRO. 1000UF-M 10V	L411	BA00712R	3225 CHIP COIL 47UH
C481	AD00436R	CEC100M16-EWCT	L413	BZ01421R	COIL FERRITE BEAD BL02RN1-R62T4
C482	0880009R	CAP.-POLYESTER 0.01UF-K 50V			
C483	0880003R	MYLAR CAPACITOR 0.001U			**TRANSISTORS**
C484	0893217R	CAP 1608CHIP 4700PFKB 50V TAPE			
C485	AD00447R	CEC4R7M25-EWCT	Q401	1323293R	TRS.CHIP 2SC4617 TL (R/S)
C486	AD00447R	CEC4R7M25-EWCT	Q402	1323293R	TRS.CHIP 2SC4617 TL (R/S)
C487	AD00447R	CEC4R7M25-EWCT	Q403	CA00981R	TRS.CHIP DTC114EE TL
C488	AD00447R	CEC4R7M25-EWCT	Q404	CA00771R	TRS.CHIP DTC323TK
C489	AD00447R	CEC4R7M25-EWCT	Q405	CA00771R	TRS.CHIP DTC323TK
CF20	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	Q407	CA00771R	TRS.CHIP DTC323TK
CF27	0800324R	CAP.-ELECTRO. 100UF-M(SMG) 6.3V	Q408	CA00981R	TRS.CHIP DTC114EE TL
CF28	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)			
CF29	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)			**RESISTORS**
CF30	0800324R	CAP.-ELECTRO. 100UF-M(SMG) 6.3V			
CF31	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)	R401	0790028R	RES.CHIP 1/16W 220 OHM
CF32	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)	R402	0790028R	RES.CHIP 1/16W 220 OHM
CF33	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)	R403	0790068R	RES.CHIP 1/16W 220K OHM
			R404	0790068R	RES.CHIP 1/16W 220K OHM
		DIODES	R405	0790024R	RES.CHIP 1/16W 100 OHM
			R406	0790024R	RES.CHIP 1/16W 100 OHM
D401	CC00632R	DIODE.CHIP RB491D (20V)	R407	0790061R	RES.CHIP 1/16W 56K OHM
D402	CC00632R	DIODE.CHIP RB491D (20V)	R408	0196096R	RES.-1608CHIP 1/16W 13K-J TAPE
D403	CC00632R	DIODE.CHIP RB491D (20V)	R409	0196123R	RES.-1608CHIP 1/16W 160K-J TAPE
D404	CC00632R	DIODE.CHIP RB491D (20V)	R410	0196106R	RES 1608 CHIP 1/16W 36KJ TAPE
D405	CC00003R	DIODE.CHIP 1SS355	R411	0196091R	RES.-1608CHIP 1/16W 9.1K-J TAPE
D406	CC00003R	DIODE.CHIP 1SS355	R412	0196119R	RES.-1608CHIP 1/16W 110K-J TAPE
D407	2339491M	DIODE AM01Z (200 TAPE) 1A	R413	0790051R	RES.CHIP 1/16W 10K OHM
D408	CC00632R	DIODE.CHIP RB491D (20V)	R414	0790036R	RES.CHIP 1/16W 820 OHM
D409	CC00632R	DIODE.CHIP RB491D (20V)	R415	0790036R	RES.CHIP 1/16W 820 OHM
D410	CC00826R	ZENER.CHIP UDZ 7.5B	R416	0196077R	RES.-1608CHIP 1/16W 2.4K-J TAPE
D411	CC00632R	DIODE.CHIP RB491D (20V)	R417	0790047R	RES.CHIP 1/16W 5.6K OHM
D412	CC00632R	DIODE.CHIP RB491D (20V)	R418	0790037R	RES.CHIP 1/16W 1.0K OHM
D413	CC00822R	ZENER.CHIP UDZ 5.1B	R419	0790037R	RES.CHIP 1/16W 1.0K OHM
D414	CC00822R	ZENER.CHIP UDZ 5.1B	R420	0790037R	RES.CHIP 1/16W 1.0K OHM
DH101	CH01042G	DIODE RK34 LF-A4	R421	0790048R	RES.CHIP 1/16W 6.8K OHM
			R422	0790048R	RES.CHIP 1/16W 6.8K OHM
		CONNECTORS	R423	0790037R	RES.CHIP 1/16W 1.0K OHM
			R424	0790037R	RES.CHIP 1/16W 1.0K OHM
EAD1	EA01252R	1.5MM PITCH 12P CONNECTOR BASE SM3	R425	0790037R	RES.CHIP 1/16W 1.0K OHM
EAF1	EA01249R	1.5MM PITCH 10P CONNECTOR BASE	R426	0790037R	RES.CHIP 1/16W 1.0K OHM
EAJ1	2959055	CONNECTOR-6P(PH)	R427	0196098R	RES.-1608CHIP 1/16W 16K-J TAPE
EAS1	2902261	PLUG PIN SUB MINI 2P	R428	0196098R	RES.-1608CHIP 1/16W 16K-J TAPE
EAS2	2902262	PLUG PIN SUB MINI 3P	R429	0196108R	RES.-1608CHIP 1/16W 43K-J TAPE
EAS3	2959051	PIN POST (2P)	R430	0196108R	RES.-1608CHIP 1/16W 43K-J TAPE
EAS4	2959051	PIN POST (2P)	R431	0113701M	RESISTOR CARBON FILM SRD1/2P-B 10-J
EJA1	2959055	CONNECTOR-6P(PH)	R432	0113701M	RESISTOR CARBON FILM SRD1/2P-B 10-J
EJF1	EA01246R	1.5MM PITCH 7P CONNECTOR BASE SM3	R433	0790051R	RES.CHIP 1/16W 10K OHM
EJF2	EA01251R	1.5MM PITCH 11P CONNECTOR BASE	R434	0790051R	RES.CHIP 1/16W 10K OHM
EJF3	EA00932R	0.5MM PITCH FPC CONNECTOR FH12-50S-0.5SV	R435	0790042R	RES.CHIP 1/16W 2.2K OHM
EJF4	EA01252R	1.5MM PITCH 12P CONNECTOR BASE SM3	R436	0790064R	RES.CHIP 1/16W 100K OHM
EJF5	EA01248R	1.5MM PITCH 9P CONNECTOR BASE SM3	R437	0790024R	RES.CHIP 1/16W 100 OHM
EJF6	EA01247R	1.5MM PITCH 8P CONNECTOR BASE	R438	0790059R	RES.CHIP 1/16W 47K OHM
EJP1	2902268	PLUG PIN SUB MINI 9P	R439	0790049R	RES.CHIP 1/16W 8.2K OHM
EJP2	2902273	PLUGPIN SUB MINI 13P	R440	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
			R441	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
			R442	0790052R	RES.CHIP 1/16W 12K OHM
		INTEGRATED CIRCUIT	R446	0790046R	RES.CHIP 1/16W 4.7K OHM
			R447	0790046R	RES.CHIP 1/16W 4.7K OHM
IC401	CK39281R	ANALOG MONOLITHIC IC(NJW1136)	R448	0790044R	RES.CHIP 1/16W 3.3K OHM
IC402	CK35311R	NJM2192AM	R458	0790051R	RES.CHIP 1/16W 10K OHM
IC403	CK31991R	ANALOG MONOLITHIC IC BU4052BCF-E2	R459	0790047R	RES.CHIP 1/16W 5.6K OHM
IC404	CK39291R	ANALOG MONOLITHIC IC(TA2021)	R460	0790024R	RES.CHIP 1/16W 100 OHM
IF06	CP06541F	IC REG.(SI-3033C)	R462	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
IF07	CP06541F	IC REG.(SI-3033C)	R463	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
IF08	CK38372R	DIGITAL MONO IC SI-3018KM	R464	0790046R	RES.CHIP 1/16W 4.7K OHM
			R465	0790064R	RES.CHIP 1/16W 100K OHM

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SYMBOL NO.	PART NO.	PART DESCRIPTION
RF58	0790024R	RES.CHIP 1/16W 100 OHM
RF59	0790024R	RES.CHIP 1/16W 100 OHM
		RELAYS
RY401	FJ00291	RELAY DQ1SU
RY402	FJ00291	RELAY DQ1SU
		MISCELLANEOUS
N401	MA01681	PDP AUDIO HEAT SINK
J401	2672967	JAK-YKC21-1P-BLK
EVJ1	ED04252U	1.27MM PITCH 5061 TYPE 80P B T
		(SWIVEL PWB)
		CAPACITORS
CS01	0800326R	CAP.-ELECTRO. 100UF-M 16V
CS04	0880057R	CAP.-POLYESTER 0.1UF-KEB 50V
CS07	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
CS08	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V
		DIODES/ INTEGRADE CIRCUIT/TRANCISTORS
DS01	2337341M	DIODE 1SS270A (TP)
DS02	2337341M	DIODE 1SS270A (TP)
DS04	2348102M	ZENER MTZJ-5.1B TA
IS01	CP08241U	ANALOG MONOLITHIC IC (BA6956AN)
QS01	2325715M	TRS.2SA933S (Q/R)
QS04	2326873R	TRS. DTC144ES TP
		RESISTORS/COILS
R813	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RS01	0700066M	RES.-CARBON FLM 1/16W 82K-JB
RS02	0700058M	RES.-CARBON FLM 1/16W 22K-JB
RS03	0700027M	RES.-CARBON FLM 1/16W 100-JB
RS04	0700027M	RES.-CARBON FLM 1/16W 100-JB
RS05	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RS06	0188171M	RES.-CARBON FLM 1M-JB 1/2W
RS07	AT01049S	RES.MTL FLM 1W 5.6 OHM
RS08	0188093M	ES.-CARBON FLM 1/2W 1.5-J
RS11	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RS14	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RS15	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
LS02	BZ01421R	COIL FERRITE BEAD BL02RN1-R62T4
		MISCELLANEOUS
XS01	2791762R	CONDENSER WITH 3 TERMINAL 10000PF
XS02	2791762R	CONDENSER WITH 3 TERMINAL 10000PF
XS03	2791762R	CONDENSER WITH 3 TERMINAL 10000PF
PJD1	ED04262U	1.27MM PITCH 5061 TYPE 80P B T
JSW	ED04241	1.5MM PITCH 13P FG CONNECTOR SOCKET
		PW1 EXTENSION SWIVEL
#01F	NA68475	V/T PANEL SWIVEL
#01SA3	8699410W	3X10 BT SCREW BLACK 8699410
#01SB2	4525404	AVC3 SCREW 3PCS3*10TAPPING
#02	NA68481K	V/T FRAME PW1
#03	MD08661K	V/T BOTTOM COVER PW1
#03SB4	4518276	DT-SCREW 3*8 BIND HEAD (BL.)
#03SB5	4518276	DT-SCREW 3*8 BIND HEAD (BL.)
#03WB5	8813124W	SPRING WASHER-3
#04	QA02911K	V/T TOP COVER PW1
#04SC	4518276	DT-SCREW 3*8 BIND HEAD (BL.)
#05SW	QL24742	PW1 EXTEND LABEL SW
#06	H461543	LABEL SHEET (C) BLANK
A11	JP07771	PSA PW1 SWIVEL
A11L	LJP0777	PW1 SWIVEL PWB
		(AVC UNIT)
		PSB AVC75 AV
		CAPACISTORS
C001	AD00629R	CEC100M16-EWMT 105
C002	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C005	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C008	AD00622R	CEC470M06-EWMT 105
C009	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C010	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C011	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C012	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C013	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C014	AD00622R	CEC470M06-EWMT 105
C015	0893213R	CAP1608CHIP 2200PFKB 50V TAPE
C016	AD00629R	CEC100M16-EWMT 105
C017	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C018	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C019	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C0F1	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C0F2	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
C0H1	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C0H2	AD00629R	CEC100M16-EWMT 105
C0K1	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C0K2	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C0K3	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C0L1	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C101	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE
C102	0893131R	CAP 1608CHIP 220PFJCH 50V TAPE
C103	AA01113R	CCC225K06-B-16CT
C104	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE
C105	0893131R	CAP 1608CHIP 220PFJCH 50V TAPE
C106	AA01113R	CCC225K06-B-16CT
C109	0893104R	CAP 1608CHIP 2PFCCK 50V TAPE
C110	0893245R	CAP 1608CHIP 15000PFKB 50V TAPE
C111	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C112	AD00629R	CEC100M16-EWMT 105
C115	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C116	AD00629R	CEC100M16-EWMT 105
C151	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C152	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C153	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE
C154	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE
C170	0893204R	CAP 1608CHIP 470PFKB 50V TAPE
C171	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
C172	0893205R	CAP 1608CHIP 560PFKB 50V TAPE
C173	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C180	0893204R	CAP 1608CHIP 470PFKB 50V TAPE
C181	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
C182	0893205R	CAP 1608CHIP 560PFKB 50V TAPE
C183	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C190	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C191	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C192	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C193	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C194	AD00629R	CEC100M16-EWMT 105
C195	AD00629R	CEC100M16-EWMT 105
C201	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C202	AD00629R	CEC100M16-EWMT 105
C205	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C206	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C207	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C208	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C209	AD00629R	CEC100M16-EWMT 105
C210	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C211	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C230	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C250	AD00622R	CEC470M06-EWMT 105
C251	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C252	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C253	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C254	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V

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SYMBOL NO.	PART NO.	PART DESCRIPTION
C255	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
C260	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C261	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE
C262	AD00631R	CEC220M16-EWMT 105
C263	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C264	AD00629R	CEC100M16-EWMT 105
C280	AA01799R	CCC472K50-B-16CT
C281	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C282	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C283	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C284	AD00622R	CEC470M06-EWMT 105
C285	AD00629R	CEC100M16-EWMT 105
C286	0893217R	CAP 1608CHIP 4700PFKB 50V TAPE
C287	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C309	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C310	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C313	0800352R	CAP.-ELECTRO.470UF 10V
C314	0800352R	CAP.-ELECTRO.470UF 10V
C315	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C316	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C317	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C318	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C319	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C320	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C322	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C323	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C325	0893247R	CAP.CHIP-CERAMIC 18000PF 50V TAPE
C326	0800352R	CAP.-ELECTRO.470UF 10V
C327	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C3P1	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C3P2	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C3P3	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C3P4	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C3P5	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C401	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C402	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C405	AA00931R	CAP. CERAMIC 2012 (1UF 10V)
C406	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C407	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C408	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C409	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C410	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C411	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C412	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C413	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C414	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C416	AA01115R	CAP.CHIP1608-B-4.7UF6.3V
C418	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
C421	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C422	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C423	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C424	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C426	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C427	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C428	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C429	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C430	0800352R	CAP.-ELECTRO.470UF 10V
C431	0800352R	CAP.-ELECTRO.470UF 10V
C432	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C433	AD00629R	CEC100M16-EWMT 105
C434	AD00629R	CEC100M16-EWMT 105
C435	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C436	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C437	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C438	AD00631R	CEC220M16-EWMT 105
C439	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C441	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C443	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C444	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C445	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C446	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C447	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C448	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C449	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C450	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C451	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C452	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C453	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C454	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C455	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C456	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C461	AD00629R	CEC100M16-EWMT 105
C462	AD00629R	CEC100M16-EWMT 105
C463	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C464	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C465	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C466	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C467	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C468	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C469	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C470	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C471	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C472	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C473	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C474	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C475	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C476	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C477	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C478	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C479	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C480	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C481	AD00631R	CEC220M16-EWMT 105
C482	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C484	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C485	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C486	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C487	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C488	AD00631R	CEC220M16-EWMT 105
C492	0800352R	CAP.-ELECTRO.470UF 10V
C493	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C494	AD00631R	CEC220M16-EWMT 105
C495	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C496	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C4A6	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C4L1	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C501	AA01136R	CERAMIC CAPACITOR(0.47UF 6.3V)
C502	AA01136R	CERAMIC CAPACITOR(0.47UF 6.3V)
C503	AA01136R	CERAMIC CAPACITOR(0.47UF 6.3V)
C508	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C509	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
C510	AA01136R	CERAMIC CAPACITOR(0.47UF 6.3V)
C511	AA01136R	CERAMIC CAPACITOR(0.47UF 6.3V)
C512	AA01802R	CCC103K50-B-16CTMCH18
C516	AA01802R	CCC103K50-B-16CTMCH18
C518	AA01101R	CERAMIC CAPACITOR(1UF 10V-F)
C519	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C521	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C523	AA01136R	CERAMIC CAPACITOR(0.47UF 6.3V)
C525	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C527	0893184R	CERAMIC CAPACITOR(22000PF 16V)
C528	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C529	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C530	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C531	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C537	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C538	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
C539	AA01136R	CERAMIC CAPACITOR(0.47UF 6.3V)
C540	AA01136R	CERAMIC CAPACITOR(0.47UF 6.3V)
C541	AA01802R	CCC103K50-B-16CTMCH18
C545	AA01802R	CCC103K50-B-16CTMCH18
C547	AA01101R	CERAMIC CAPACITOR(1UF 10V-F)
C552	AA01136R	CERAMIC CAPACITOR(0.47UF 6.3V)
C554	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C556	0893184R	CERAMIC CAPACITOR(22000PF 16V)
C557	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C558	AD00629R	CEC100M16-EWMT 105
C559	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C560	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C570	AA01136R	CERAMIC CAPACITOR(0.47UF 6.3V)
C571	AA01136R	CERAMIC CAPACITOR(0.47UF 6.3V)

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
C572	AA01136R	CERAMIC CAPACITOR(0.47UF 6.3V)	C969	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C573	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	C971	AL01848R	470UF 16V AL. ELECTROLYTIC CAPACITOR
C574	AD00629R	CEC100M16-EWMT 105	C972	0800303R	CAP.-ELECTRO. 22UF-M 50V
C575	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	C973	AL01863R	220UF 35V ALUMINIUM ELECTROLYT
C576	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	C976	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C577	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)	C977	AD00632R	CEC470M16-EWMT 105
C578	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)	CA01	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C579	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)	CA02	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
C580	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)	CA03	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
C581	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)	CA04	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
C582	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)	CA05	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
C583	AD00629R	CEC100M16-EWMT 105	CA06	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
C584	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	CA07	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
C585	0893117R	CAP 1608CHIP 22PFJCH 50V TAPE	CA08	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C586	0893117R	CAP 1608CHIP 22PFJCH 50V TAPE	CA11	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C587	0893117R	CAP 1608CHIP 22PFJCH 50V TAPE	CA12	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C589	AD00629R	CEC100M16-EWMT 105	CA13	AA00936R	CERAMIC CAP. 2125-X5R 4.7UF 10V
C5A0	AA01136R	CERAMIC CAPACITOR(0.47UF 6.3V)	CA14	AA00936R	CERAMIC CAP. 2125-X5R 4.7UF 10V
C5A1	AA01136R	CERAMIC CAPACITOR(0.47UF 6.3V)	CA15	AD00629R	CEC100M16-EWMT 105
C5A2	AA01136R	CERAMIC CAPACITOR(0.47UF 6.3V)	CA16	AD00629R	CEC100M16-EWMT 105
C5A3	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	CA17	AA00936R	CERAMIC CAP. 2125-X5R 4.7UF 10V
C5A4	AD00629R	CEC100M16-EWMT 105	CA21	AD00631R	CEC220M16-EWMT 105
C5A5	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	CA22	0800344R	CAP.-ELECTRO. 330UF-M(SMG) 16V
C5A6	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	CA23	0800351R	CAP.-ELECTRO. 470UF-M 6.3V
C5A7	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)	CA24	0800351R	CAP.-ELECTRO. 470UF-M 6.3V
C5A8	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)	CA25	AD00629R	CEC100M16-EWMT 105
C5A9	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)	CA26	AD00631R	CEC220M16-EWMT 105
C5C0	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)	CA27	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C5C1	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)	CA28	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C5C2	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)	CA29	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
C5C3	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE	CA30	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
C5C4	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE	CA31	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C5H1	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	CA32	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C5P0	AD00658R	CAP.CHIP-ELECTRO 100UF 16V	CP02	AL01847R	330UF 16V ALUMINIUM ELECTROLYT
C5P1	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)	CP03	AL01849R	1000UF 16V AL. ELECTROLYTIC CAPACITOR
C5P2	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)	CP04	0893023R	CAP 2125 CHIP 47000PF-K B 25V
⚠ C901	AN01443S	ACROSS CAPA 0.1UF 250V RE104	CP05	0893031R	CAP 2125CHIP 1000PFKB 50V TAPE
⚠ C902	AN01443S	ACROSS CAPA 0.1UF 250V RE104	CP09	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
⚠ C903	AN01443S	ACROSS CAPA 0.1UF 250V RE104	CP10	0893031R	CAP 2125CHIP 1000PFKB 50V TAPE
C904	AJ00195R	CAP. CERAMIC CK45-F2EA472ZYVN	CP11	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C905	AJ00195R	CAP. CERAMIC CK45-F2EA472ZYVN	CP12	0893127R	CAP 1608CHIP 120PFJCH 50V TAPE
⚠ C906	AJ00163R	CAP. CERAMIC CS11-E2GA222MYVS	CP14	AL01833R	1000UF 6.3V AL. ELECTROLYTIC CAPACITOR
⚠ C907	AJ00163R	CAP. CERAMIC CS11-E2GA222MYVS	CP15	AL01833R	1000UF 6.3V AL. ELECTROLYTIC CAPACITOR
C908	0800318R	CAP.-ELECTRO. 47UF-M 25V	CP16	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
C909	AL02773	ELEC.CAP.680UF/250V MXC 35*30	CP17	AD00631R	CEC220M16-EWMT 105
C911	0299977F	CAP.-POLYPROPYLENE FILM 0.0047UF-F 630V	CP18	AL01857R	470UF 25V AL. ELECTROLYTIC CAPACITOR
C912	0800318R	CAP.-ELECTRO. 47UF-M 25V	CP19	0893023R	CAP 2125 CHIP 47000PF-K B 25V
C913	AJ00155R	CAP. CERAMIC CS85-B2GA471KYVS	CP21	AD00631R	CEC220M16-EWMT 105
C915	0893037R	CAP 2125CHIP 3300PFKB 50V TAPE	CP22	0893031R	CAP 2125CHIP 1000PFKB 50V TAPE
C919	0893044R	CAP2125CHIP 10000PFKB 50V TAPE	CP23	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE
C922	AL00029R	CAP.-ELECTORO. 22UF-M 250V	CP24	0893031R	CAP 2125CHIP 1000PFKB 50V TAPE
⚠ C923	AJ00163R	CAP. CERAMIC CS11-E2GA222MYVS	CP25	0893044R	CAP2125CHIP 10000PFKB 50V TAPE
C930	0800353R	CAP.-ELECTRO.470UF-M 16V	CP26	0893127R	CAP 1608CHIP 120PFJCH 50V TAPE
C933	AL01851R	2200UF 16V AL. ELECTROLYTIC CAPACITOR	CP27	AA01814R	CCC104K25-B-16CT
C935	0800345R	CAP.-ELECTRO. 330UF-M(SMG) 25V	CP28	AL01834R	2200UF 6.3V AL. ELECTROLYTIC CAPACITOR
C936	AL01858R	1000UF 25V AL. ELECTROLYTIC CAPACITOR	CP33	AA01814R	CCC104K25-B-16CT
C937	AL01851R	2200UF 16V AL. ELECTROLYTIC CAPACITOR	CV01	AD00629R	CEC100M16-EWMT 105
C938	AL01871R	100UF 50V ALUMINIUM ELECTROLYT	CV02	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C939	AL01858R	1000UF 25V AL. ELECTROLYTIC CAPACITOR	CV03	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C940	0893174R	CAP 1608CHIP 820PFJSL 50V TAPE	CV04	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C941	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CV05	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C944	0893044R	CAP2125CHIP 10000PFKB 50V TAPE	CV06	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
C945	0800291R	CAP.-ELECTRO. 10UF-M(SMG) 16V	CV07	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C946	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V	CV08	AD00629R	CEC100M16-EWMT 105
C947	AL01857R	470UF 25V AL. ELECTROLYTIC CAPACITOR	CV09	0893118R	CAP 1608CHIP 27PFJCH 50V TAPE
C948	0893023R	CAP 2125 CHIP 47000PF-K B 25V	CV10	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C949	0893023R	CAP 2125 CHIP 47000PF-K B 25V	CV11	0893115R	CAP 1608CHIP 15PFJCH 50V TAPE
C950	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CV12	AA01101R	CERAMIC CAPACITOR(1UF 10V-F)
C951	0893027R	CAP 2125 CHIP 100000PF-K B 25V TAPE	CV13	AD00629R	CEC100M16-EWMT 105
C952	0893042R	CAP 2125CHIP 6800PFKB 50V TAPE	CV14	0893111R	CAP 1608CHIP 8PFCCH 50V TAPE
C954	0893042R	CAP 2125CHIP 6800PFKB 50V TAPE	CV15	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C955	AL01833R	1000UF 6.3V AL. ELECTROLYTIC CAPACITOR	CV16	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C956	AL01857R	470UF 25V AL. ELECTROLYTIC CAPACITOR	CV17	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
C958	AA01814R	CCC104K25-B-16CT	CV18	0893117R	CAP 1608CHIP 22PFJCH 50V TAPE
C959	0800303R	CAP.-ELECTRO. 22UF-M 50V	CV19	0893114R	CAP 1608CHIP 12PFJCH 50V TAPE

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SYMBOL NO.	PART NO.	PART DESCRIPTION
CV20	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV21	0893117R	CAP 1608CHIP 22PFJCH 50V TAPE
CV22	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV23	0893121R	CAP 1608CHIP 39PFJCH 50V TAPE
CV24	AD00629R	CEC100M16-EWMT 105
CV25	AA01136R	CERAMIC CAPACITOR(0.47UF 6.3V)
CV26	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV27	0893114R	CAP 1608CHIP 12PFJCH 50V TAPE
CV28	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CV29	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV30	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CV31	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV32	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV33	AA00964R	CERAMIC CAPACITOR(2.2UF 6.3V)
CV34	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CV35	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
CV37	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CV38	AA00964R	CERAMIC CAPACITOR(2.2UF 6.3V)
CV40	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CV41	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CV42	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CV43	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CV44	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CV45	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
CV46	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
CV47	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE
CV48	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CV49	0893129R	CAP 1608CHIP 180PFJCH 50V TAPE
CV50	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CV51	0893127R	CAP 1608CHIP 120PFJCH 50V TAPE
CV52	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CV53	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
CV54	0893121R	CAP 1608CHIP 39PFJCH 50V TAPE
CV55	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
CV56	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CV57	AA01101R	CERAMIC CAPACITOR(1UF 10V-F)
CV58	0893135R	CAP 1608CHIP 470PFJCH 50V TAPE
CV59	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CV60	0893213R	CAP1608CHIP 2200PFKB 50V TAPE
CV61	AD00629R	CEC100M16-EWMT 105
CV62	AA00964R	CERAMIC CAPACITOR(2.2UF 6.3V)
CV63	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
CV64	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV66	AD00629R	CEC100M16-EWMT 105
CV67	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV68	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CV69	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE
CV71	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
CV72	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CV73	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CV74	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
CV76	AD00658R	CAP.CHIP-ELECTRO 100UF 16V
CV77	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV78	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV79	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV80	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV81	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV82	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV83	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV84	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV85	0800353R	CAP.-ELECTRO.470UF-M 16V
CV86	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CV87	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CV88	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CV89	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CV90	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV91	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV92	0893213R	CAP1608CHIP 2200PFKB 50V TAPE
CV93	0800352R	CAP.-ELECTRO.470UF 10V
CV95	0893213R	CAP1608CHIP 2200PFKB 50V TAPE
CV96	0800352R	CAP.-ELECTRO.470UF 10V
CV97	0800353R	CAP.-ELECTRO.470UF-M 16V
CV98	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CV99	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CW00	0893114R	CAP 1608CHIP 12PFJCH 50V TAPE
CW01	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CW02	AA01143R	CERAMIC CAPACITOR(0.22UF 16V-B)
CW03	0893213R	CAP1608CHIP 2200PFKB 50V TAPE
CW04	0893114R	CAP 1608CHIP 12PFJCH 50V TAPE
CW06	AA01143R	CERAMIC CAPACITOR(0.22UF 16V-B)
CW07	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CW08	0893213R	CAP1608CHIP 2200PFKB 50V TAPE
CW09	AD00648R	CEC1R0M50-EWMT 105
CW11	AA01802R	CCC103K50-B-16CTMCH18
CW12	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CW13	AD00648R	CEC1R0M50-EWMT 105
CW14	AA01802R	CCC103K50-B-16CTMCH18
CW15	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CW16	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CW17	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CW18	AA01141R	CERAMIC CAPACITOR(0.1UF 16V)
CW27	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
CW29	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
CW31	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW32	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW33	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW34	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW35	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW36	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW37	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW38	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW39	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW40	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW41	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW42	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW43	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW44	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW45	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW46	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW47	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW48	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW49	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW50	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW51	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW52	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW53	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW54	AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)
CW55	AD00629R	CEC100M16-EWMT 105
CW56	AD00629R	CEC100M16-EWMT 105
CX01	AD00622R	CEC470M06-EWMT 105
CX02	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CX03	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CX11	AD00622R	CEC470M06-EWMT 105
		DIODES
D001	CC00003R	DIODE.CHIP 1SS355
D002	CC00003R	DIODE.CHIP 1SS355
D004	CC00003R	DIODE.CHIP 1SS355
D280	CC00971R	DIODE.CHIP DAN202KT146
D302	CC00842R	ZENER.CHIP UDZ 30B
D405	CC00117R	CHIP DIODE RD3.0UM(B-T)
D406	CC00117R	CHIP DIODE RD3.0UM(B-T)
D407	CC00003R	DIODE.CHIP 1SS355
D408	CC10721R	DIODE CHIP DA204K-TPTX
⚠ D901	2342061	DIODE D3SB(A)60.
⚠ D902	2334304M	ZENER RD30E (B3 T2/TP/TA) SI 5MA 30.51V
D903	2338531M	DIODE EG-01C (V) SI 0.5A
D905	2331795M	ZENER HZ-5 (B2 TAPE) SI 200MA 4.9V
D906	2337341M	DIODE 1SS270A (TP)
⚠ D907	CH00051	DIODE SD-S1WB(A)60B (600V)
⚠ D909	CH00151M	DIODE DSM1SD2(200V)TAPE
D910	2337341M	DIODE 1SS270A (TP)
D911	2337341M	DIODE 1SS270A (TP)
D912	2338531M	DIODE EG-01C (V) SI 0.5A
⚠ D930	CH00151M	DIODE DSM1SD2(200V)TAPE
D931	CH02771	DIODE FML-G22S
D932	2359411	DIODE FMB-G24H
⚠ D933	CH00151M	DIODE DSM1SD2(200V)TAPE
⚠ D934	2339782R	DIODE.CHIP DAN202UT106(80V)
D936	CC00003R	DIODE.CHIP 1SS355
D937	CC00142R	CHIP DIODE RD5.1UM(B2-T)
D938	CC00142R	CHIP DIODE RD5.1UM(B2-T)
D940	2323782R	THYRISTOR 03P2M
D944	CC00003R	DIODE.CHIP 1SS355
⚠ D946	CH00151M	DIODE DSM1SD2(200V)TAPE
⚠ D947	CH01042M	DIODE RK34 (40V)
D948	CC00168R	CHIP DIODE RD9.0UM(B2-T)
D949	CC00147R	CHIP DIODE RD5.6UM(B3-T)
D950	CC00142R	CHIP DIODE RD5.1UM(B2-T)

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SYMBOL NO.	PART NO.	PART DESCRIPTION
D951	CC00003R	DIODE.CHIP 1SS355
D952	CC00003R	DIODE.CHIP 1SS355
D953	CC00003R	DIODE.CHIP 1SS355
D954	CC00003R	DIODE.CHIP 1SS355
D955	CC00003R	DIODE.CHIP 1SS355
D956	2339845M	ZENER DIODE HZS6 (B2)
DA01	CC00117R	CHIP DIODE RD3.0UM(B-T)
DA02	CC00117R	CHIP DIODE RD3.0UM(B-T)
DA03	CC00117R	CHIP DIODE RD3.0UM(B-T)
DA04	CC00117R	CHIP DIODE RD3.0UM(B-T)
DA05	CC00003R	DIODE.CHIP 1SS355
DA06	CC00003R	DIODE.CHIP 1SS355
DA07	CC00003R	DIODE.CHIP 1SS355
DA08	CC00003R	DIODE.CHIP 1SS355
DA09	CC00003R	DIODE.CHIP 1SS355
DA10	CC00003R	DIODE.CHIP 1SS355
DA11	CC00823R	ZENER.CHIP UDZ 5.6B
⚠ DP01	CH00151M	DIODE DSM1SD2(200V)TAPE
DP02	CC00003R	DIODE.CHIP 1SS355
DP03	CC00117R	CHIP DIODE RD3.0UM(B-T)
DP04	CC01641R	DIODE HSU119
DP08	CC01881R	M2FM3
DP10	CC01641R	DIODE HSU119
DP11	CC00147R	CHIP DIODE RD5.6UM(B3-T)
DP12	CC00168R	CHIP DIODE RD9.0UM(B2-T)
DP13	CC00003R	DIODE.CHIP 1SS355
DP15	CC01631R	DIODE D1FS4A
DV02	CC00971R	DIODE.CHIP DAN202KT146
EP01	EF09605	CONNECTOR CO-01T-N0R0-111
⚠ F901	FN00062	FUSE UL-TSC 005A
⚠ F902	FN00404	FUSE UL TSC 2.5A N1 125V
⚠ H901	CW00352	UPM0518SA
		INTEGRATED CIRCUITS
I001	CK38994U	MICRO COMPUTER(M30626FHPFP-B)
I002	CK37052R	ANALOG MONOLITHIC IC(BD4742G)
I003	CK39652R	DIGITAL MONOLITHIC IC (BR24L32FJ-WE2)
I004	CK50121R	IC CD4053BPWR
I101	CK50391U	M306V7MG-093FP
I102	CK34761R	DIGITAL MONOLITHIC IC (SN74LV221APWR)
I103	CK37218R	MONO IC TK11150CSCL
I104	CK37216R	MONO IC TK11133CSCL
I201	CK37413U	IR BLASTER MASK S3C80F9XKN-QZ87
I202	CK39653R	DIGITAL MONOLITHIC IC (BR24L16FJ-WE2)
I203	CK50121R	IC CD4053BPWR
I204	CK37216R	MONO IC TK11133CSCL
I250	CK04681R	DIGITAL MONOLITHIC IC (DS14C232CM)
I260	CK50121R	IC CD4053BPWR
I3P1	CK37218R	MONO IC TK11150CSCL
I3P2	CK37194R	MONO IC SI-3050LSA-TL
I401	CK39891R	MM1631XJBE
I402	CK39881U	MM1630AQ
I403	CK38377R	DIGITAL MONO IC SI-3090KM
I404	CK37406R	MONO IC SI-3012KS
I501	CK50001U	AN15865A
I502	CK50001U	AN15865A
I503	CK34991R	SN74ACT14PWR TSSO
I505	CK31042R	IC TA1287FG
I506	CK31042R	IC TA1287FG
I5H1	CK50121R	IC CD4053BPWR
I5P1	CK38377R	DIGITAL MONO IC SI-3090KM
I901	CP07824U	STR-G6623A
⚠ I902	CP05431	ANALOG MONOLITHIC IC (TLP621F D4-GRL)
⚠ I903	CP05431	ANALOG MONOLITHIC IC (TLP621F D4-GRL)
I931	CK37171R	MONO IC SPI-8010A
I933	CW00361	DC-DCCONVERTER
I934	CK37218R	MONO IC TK11150CSCL
IA01	CP02601	AN5285K
IA02	CK31031R	IC BA3530FS-E2
IP01	CK39761R	ANALOG MONOLITHIC IC MD1222N
IP03	CK36271R	AD7414ART
IP04	CK37406R	MONO IC SI-3012KS
IP05	CK37141R	DIGI IC MD1422N
IV01	CK37212R	MONO IC TK11125CSCL
IV02	CK38701U	IC UPD64084GC-8EA-A
IV03	CK37053R	RESET IC BD4727G
IV04	CK07631R	DIGITAL MONOLITHIC IC (TC90A45F)
IV06	CK38102R	VIDEO SWITCH IC NJM2584AM(TE1)
IV08	CK38721R	ANALOG MONOLITHIC IC(TA1383FG)
IV09	CK38102R	VIDEO SWITCH IC NJM2584AM(TE1)
IV12	CK38721R	ANALOG MONOLITHIC IC(TA1383FG)
		COILS / FILTERS
L001	BA00894R	LBC2518 CHIP COIL 100UH
L002	BA00894R	LBC2518 CHIP COIL 100UH
L0H1	BA00894R	LBC2518 CHIP COIL 100UH
L201	BA00881R	LBC2518 CHIP COIL 1.0UH
L250	BA00894R	LBC2518 CHIP COIL 100UH
L260	BA00894R	LBC2518 CHIP COIL 100UH
L280	BA00894R	LBC2518 CHIP COIL 100UH
L302	BA00892R	LBC2518 CHIP COIL 47UH
L303	BA00887R	LBC2518 CHIP COIL 10UH
L304	BA00887R	LBC2518 CHIP COIL 10UH
L305	BH01341M	COIL FERRITE BEADS 0.8UH
L306	BH01341M	COIL FERRITE BEADS 0.8UH
L307	BH01341M	COIL FERRITE BEADS 0.8UH
L401	BA00887R	LBC2518 CHIP COIL 10UH
L402	BA00887R	LBC2518 CHIP COIL 10UH
L405	BA00894R	LBC2518 CHIP COIL 100UH
L501	BA00894R	LBC2518 CHIP COIL 100UH
L502	BA00894R	LBC2518 CHIP COIL 100UH
L505	BA00894R	LBC2518 CHIP COIL 100UH
L506	BA00894R	LBC2518 CHIP COIL 100UH
L507	BA00892R	LBC2518 CHIP COIL 47UH
L508	BA00892R	LBC2518 CHIP COIL 47UH
L511	BA00887R	LBC2518 CHIP COIL 10UH
L512	BA00887R	LBC2518 CHIP COIL 10UH
⚠ L901	BZ05742	LINE FILTER 8.0MH
⚠ L902	BZ05741	LINE FILTER 5.6M
L904	2123462M	FERRITE BEADS CORE B 2.3UH
L905	BZ01421R	COIL FERRITE BEAD BL02RN1-R62T4
L907	2125806N	FILT.COIL(LHL08 47UH)
L930	2125806N	FILT.COIL(LHL08 47UH)
L932	BA01023R	COIL 47UH 2A
L935	2123462M	FERRITE BEADS CORE B 2.3UH
LA01	BA00892R	LBC2518 CHIP COIL 47UH
LP01	BM00366R	COIL SLF12575T-100M5R4
LP02	BA00714R	3225 CHIP COIL 100UH
LP03	BA00979R	COIL 15UH 3.9A
LV01	BA00892R	LBC2518 CHIP COIL 47UH
LV02	BA00892R	LBC2518 CHIP COIL 47UH
LV03	BA00894R	LBC2518 CHIP COIL 100UH
LV04	BA00894R	LBC2518 CHIP COIL 100UH
LV05	BA00891R	LBC2518 CHIP COIL 33UH
LV06	BA00891R	LBC2518 CHIP COIL 33UH
LV07	BA00891R	LBC2518 CHIP COIL 33UH
LV08	BA00894R	LBC2518 CHIP COIL 100UH
LV09	BA00894R	LBC2518 CHIP COIL 100UH
LV10	BA00889R	LBC2518 CHIP COIL 22UH
LV12	BA00894R	LBC2518 CHIP COIL 100UH
LV13	BA00894R	LBC2518 CHIP COIL 100UH
LV15	BA00892R	LBC2518 CHIP COIL 47UH
LV16	BA00892R	LBC2518 CHIP COIL 47UH
LV17	BA00892R	LBC2518 CHIP COIL 47UH
LV18	BA00892R	LBC2518 CHIP COIL 47UH
LV19	BA00894R	LBC2518 CHIP COIL 100UH
LV20	BA00894R	LBC2518 CHIP COIL 100UH
		MISCELLANEOUS
ND931	MC00753	AVC5 HEAT SINK 45
ND931A	4520881	M3*8 SCREW WITH WASHER
ND932	MC00753	AVC5 HEAT SINK 45
ND932A	4520881	M3*8 SCREW WITH WASHER
NF901	FP00031R	FUSE HOLDER
NF902	FP00031R	FUSE HOLDER
NI901	MA01692	AVC5 POWER HEAT SINK
NI901A	4520883	3*12 SCREW WITH WASHER

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
NJ901	NA56411	AC INLET MTL AVC3	Q411	CA00461R	TRS.CHIP 2SD2114K 20V TAPE
NJ901A	4531762	SCREW 3*14 WITH WASHER	Q423	1323294R	TRS.CHIP 2SA1774 TL (R/S)
NS	9414017W	SILICONE COMPOUND(G-746)	Q424	1323293R	TRS.CHIP 2SC4617 TL (R/S)
P50FP	EA00932R	0.5MM PITCH FPC CONNECTOR FH12-50S-0.5SV	Q425	1323293R	TRS.CHIP 2SC4617 TL (R/S)
PAN	2902262	PLUG PIN SUB MINI 3P	Q427	1323293R	TRS.CHIP 2SC4617 TL (R/S)
PCONT	EA00348R	CONNECTOR CPC09PH2R0VTPH-SM3	Q501	1323293R	TRS.CHIP 2SC4617 TL (R/S)
PFAN	EA00342R	CONNECTOR CPC03PH2R0VTPH-SM3	Q502	1323293R	TRS.CHIP 2SC4617 TL (R/S)
PFH1	2959059	PLUG PH PIN POST 10P	Q503	1323293R	TRS.CHIP 2SC4617 TL (R/S)
PFH2	2902261	PLUG PIN SUB MINI 2P	Q504	1323293R	TRS.CHIP 2SC4617 TL (R/S)
PFH3	EA01249R	1.5MM PITCH 10P CONNECTOR BASE	Q505	1323293R	TRS.CHIP 2SC4617 TL (R/S)
PFP1	EA01246R	1.5MM PITCH 7P CONNECTOR BASE SM3	Q506	1323293R	TRS.CHIP 2SC4617 TL (R/S)
PFP2	EA01248R	1.5MM PITCH 9P CONNECTOR BASE SM3	Q507	1323293R	TRS.CHIP 2SC4617 TL (R/S)
PFSA	2959059	PLUG PH PIN POST 10P	Q508	1323293R	TRS.CHIP 2SC4617 TL (R/S)
PFSB	2675289	PLUG 10P	Q509	CA00621R	TRS.CHIP UMZ1N
PFV1	2959055	CONNECTOR-6P(PH)	Q510	CA00122R	TRS.CHIP 2SA1576A(R)50V TAPE
PFV2	2959055	CONNECTOR-6P(PH)	Q511	CA00122R	TRS.CHIP 2SA1576A(R)50V TAPE
PHM	EA00932R	0.5MM PITCH FPC CONNECTOR FH12-50S-0.5SV	Q512	CA00122R	TRS.CHIP 2SA1576A(R)50V TAPE
PMS1	ED01477U	23P BRIDGE CONNECTOR TWG-P23P-A1	Q513	1323293R	TRS.CHIP 2SC4617 TL (R/S)
PMS2	ED01477U	23P BRIDGE CONNECTOR TWG-P23P-A1	Q514	1323293R	TRS.CHIP 2SC4617 TL (R/S)
PRST	2902261	PLUG PIN SUB MINI 2P	Q515	CA00621R	TRS.CHIP UMZ1N
PSW	2902262	PLUG PIN SUB MINI 3P	Q516	2316244R	TRS.CHIP 2SC4081 R
PSWAV	2902262	PLUG PIN SUB MINI 3P	Q517	2316244R	TRS.CHIP 2SC4081 R
Z001	MN07281	PVC SUPPORT	Q5H1	CA00983R	TRS.CHIP DTC144EE TL
J201	ER00581	STEREO MINI JACK(EMI)	Q5N1	1323293R	TRS.CHIP 2SC4617 TL (R/S)
J202	ER00581	STEREO MINI JACK(EMI)	Q5N2	1323293R	TRS.CHIP 2SC4617 TL (R/S)
J203	EY01543	JACK PJX-YKF42-8057N	Q5N3	1323293R	TRS.CHIP 2SC4617 TL (R/S)
J401	EU01312	TERMINAL BOARD YKC21-8525	Q5T1	1323293R	TRS.CHIP 2SC4617 TL (R/S)
J402	EU01312	TERMINAL BOARD YKC21-8525	Q5T2	1323293R	TRS.CHIP 2SC4617 TL (R/S)
J403	ES00351	JACK LAP5120-0101F US9P Y/C3P	Q5T3	1323293R	TRS.CHIP 2SC4617 TL (R/S)
J404	EQ00621	JACK	Q930	2327772M	TRS.2SC3413 TAPE (B/C)
J405	EU01051	TAP PIN JACK (FRONT) 3P+S	Q931	1323293R	TRS.CHIP 2SC4617 TL (R/S)
J901	2676371	PLAG-AC INLET SK-1019	Q932	1323293R	TRS.CHIP 2SC4617 TL (R/S)
JA01	2672041	MINI HEADPHONE JACK	Q934	1323294R	TRS.CHIP 2SA1774 TL (R/S)
			Q935	CA00983R	TRS.CHIP DTC144EE TL
		TRANCISTORS	Q936	CA00983R	TRS.CHIP DTC144EE TL
			Q937	1323293R	TRS.CHIP 2SC4617 TL (R/S)
Q001	1323392	TRS.CHIP UMX1N	QA01	1323392	TRS.CHIP UMX1N
Q002	CA01301R	TRS.CHIP NDC7002N	QA02	1323392	TRS.CHIP UMX1N
Q070	1323293R	TRS.CHIP 2SC4617 TL (R/S)	QA03	1323392	TRS.CHIP UMX1N
Q0F1	CA00981R	TRS.CHIP DTC114EE TL	QA04	1323392	TRS.CHIP UMX1N
Q0K1	1323392	TRS.CHIP UMX1N	QA05	CA00983R	TRS.CHIP DTC144EE TL
Q0L1	1323392	TRS.CHIP UMX1N	QA06	CA00983R	TRS.CHIP DTC144EE TL
Q100	CA00983R	TRS.CHIP DTC144EE TL	QA07	CA00983R	TRS.CHIP DTC144EE TL
Q150	1323293R	TRS.CHIP 2SC4617 TL (R/S)	QA08	1323294R	TRS.CHIP 2SA1774 TL (R/S)
Q170	1323293R	TRS.CHIP 2SC4617 TL (R/S)	QA09	1323294R	TRS.CHIP 2SA1774 TL (R/S)
Q180	1323293R	TRS.CHIP 2SC4617 TL (R/S)	QA10	CA00621R	TRS.CHIP UMZ1N
Q201	CA00983R	TRS.CHIP DTC144EE TL	QA11	CA00621R	TRS.CHIP UMZ1N
Q202	1323294R	TRS.CHIP 2SA1774 TL (R/S)	QV01	CA00331R	TRS.CHIP IMZ1A
Q203	CF02771R	TRS. KTA1270	QV03	CA00142R	TRS.CHIP IMX2
Q204	CF02771R	TRS. KTA1270	QV05	CA00621R	TRS.CHIP UMZ1N
Q230	CA01011R	TRS.CHIP 2SK3018	QV06	CA01301R	TRS.CHIP NDC7002N
Q260	CA00983R	TRS.CHIP DTC144EE TL	QV07	CA00621R	TRS.CHIP UMZ1N
Q261	1323294R	TRS.CHIP 2SA1774 TL (R/S)	QV08	1323294R	TRS.CHIP 2SA1774 TL (R/S)
Q262	1323294R	TRS.CHIP 2SA1774 TL (R/S)	QV09	1323392	TRS.CHIP UMX1N
Q263	1323293R	TRS.CHIP 2SC4617 TL (R/S)	QV13	1323294R	TRS.CHIP 2SA1774 TL (R/S)
Q280	2316244R	TRS.CHIP 2SC4081 R	QV15	1323294R	TRS.CHIP 2SA1774 TL (R/S)
Q281	2316244R	TRS.CHIP 2SC4081 R	QV16	1323294R	TRS.CHIP 2SA1774 TL (R/S)
Q282	1323392	TRS.CHIP UMX1N	QV17	1323294R	TRS.CHIP 2SA1774 TL (R/S)
Q283	1323293R	TRS.CHIP 2SC4617 TL (R/S)	QV18	1323293R	TRS.CHIP 2SC4617 TL (R/S)
Q284	1323293R	TRS.CHIP 2SC4617 TL (R/S)	QV19	1323293R	TRS.CHIP 2SC4617 TL (R/S)
Q302	1323293R	TRS.CHIP 2SC4617 TL (R/S)	QV20	1323293R	TRS.CHIP 2SC4617 TL (R/S)
Q303	1323294R	TRS.CHIP 2SA1774 TL (R/S)	QV21	1323293R	TRS.CHIP 2SC4617 TL (R/S)
Q304	1323293R	TRS.CHIP 2SC4617 TL (R/S)	QV22	CA00142R	TRS.CHIP IMX2
Q305	1323294R	TRS.CHIP 2SA1774 TL (R/S)	QV25	CA00331R	TRS.CHIP IMZ1A
Q306	1323294R	TRS.CHIP 2SA1774 TL (R/S)	QV26	CA00621R	TRS.CHIP UMZ1N
Q308	1323392	TRS.CHIP UMX1N	QV27	CA00621R	TRS.CHIP UMZ1N
Q311	CA00983R	TRS.CHIP DTC144EE TL	QV33	2316244R	TRS.CHIP 2SC4081 R
Q313	CA00983R	TRS.CHIP DTC144EE TL	QV34	2316244R	TRS.CHIP 2SC4081 R
Q401	CA00983R	TRS.CHIP DTC144EE TL	QV35	CA00331R	TRS.CHIP IMZ1A
Q402	1323293R	TRS.CHIP 2SC4617 TL (R/S)	QV36	CA00621R	TRS.CHIP UMZ1N
Q403	1323294R	TRS.CHIP 2SA1774 TL (R/S)	QV39	2316244R	TRS.CHIP 2SC4081 R
Q405	1323294R	TRS.CHIP 2SA1774 TL (R/S)	QV40	2316244R	TRS.CHIP 2SC4081 R
Q407	1323294R	TRS.CHIP 2SA1774 TL (R/S)	QV43	2316244R	TRS.CHIP 2SC4081 R
Q408	1323294R	TRS.CHIP 2SA1774 TL (R/S)	QV44	2316244R	TRS.CHIP 2SC4081 R
Q409	CA00461R	TRS.CHIP 2SD2114K 20V TAPE	QV45	2316244R	TRS.CHIP 2SC4081 R

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
QV47	2316244R	TRS.CHIP 2SC4081 R	R070	0790051R	RES.CHIP 1/16W 10K OHM
QV48	2316244R	TRS.CHIP 2SC4081 R	R072	0790059R	RES.CHIP 1/16W 47K OHM
QV49	2316244R	TRS.CHIP 2SC4081 R	R073	0790024R	RES.CHIP 1/16W 100 OHM
QX01	1323294R	TRS.CHIP 2SA1774 TL (R/S)	R074	0790059R	RES.CHIP 1/16W 47K OHM
QX02	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R075	0790024R	RES.CHIP 1/16W 100 OHM
QX03	2316244R	TRS.CHIP 2SC4081 R	R076	0790059R	RES.CHIP 1/16W 47K OHM
QX04	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R077	AQ00037R	RES.CHIP 1/16W 1.0K OHM (4 R)
QX11	1323294R	TRS.CHIP 2SA1774 TL (R/S)	R078	0790024R	RES.CHIP 1/16W 100 OHM
QX12	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R079	0790024R	RES.CHIP 1/16W 100 OHM
QX13	2316244R	TRS.CHIP 2SC4081 R	R080	0790024R	RES.CHIP 1/16W 100 OHM
QX14	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R081	0790024R	RES.CHIP 1/16W 100 OHM
QX15	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R083	AQ00037R	RES.CHIP 1/16W 1.0K OHM (4 R)
QX16	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R087	0790059R	RES.CHIP 1/16W 47K OHM
QX17	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R088	0790059R	RES.CHIP 1/16W 47K OHM
QX18	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R089	0790059R	RES.CHIP 1/16W 47K OHM
QX19	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R090	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)
QX20	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R091	0790059R	RES.CHIP 1/16W 47K OHM
QX21	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R092	0790059R	RES.CHIP 1/16W 47K OHM
QX22	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R093	0790024R	RES.CHIP 1/16W 100 OHM
			R094	AQ00037R	RES.CHIP 1/16W 1.0K OHM (4 R)
		RESISTORS	R095	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)
			R096	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)
R001	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)	R099	0790033R	RES.CHIP 1/16W 470 OHM
R005	0790024R	RES.CHIP 1/16W 100 OHM	R0A1	0790028R	RES.CHIP 1/16W 220 OHM
R006	0790037R	RES.CHIP 1/16W 1.0K OHM	R0A2	0790044R	RES.CHIP 1/16W 3.3K OHM
R007	0790024R	RES.CHIP 1/16W 100 OHM	R0A3	0790024R	RES.CHIP 1/16W 100 OHM
R008	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R0A4	0790024R	RES.CHIP 1/16W 100 OHM
R009	0790051R	RES.CHIP 1/16W 10K OHM	R0A5	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R010	0790024R	RES.CHIP 1/16W 100 OHM	R0A6	0790046R	RES.CHIP 1/16W 4.7K OHM
R012	0790024R	RES.CHIP 1/16W 100 OHM	R0A7	0790055R	RES.CHIP 1/16W 22K OHM
R013	0790037R	RES.CHIP 1/16W 1.0K OHM	R0A8	0790046R	RES.CHIP 1/16W 4.7K OHM
R015	0790059R	RES.CHIP 1/16W 47K OHM	R0A9	0790064R	RES.CHIP 1/16W 100K OHM
R016	0790046R	RES.CHIP 1/16W 4.7K OHM	R0E1	0790027R	RES.CHIP 1/16W 180 OHM
R017	0790037R	RES.CHIP 1/16W 1.0K OHM	R0E2	0790063R	RES.CHIP 1/16W 82K OHM
R018	0790059R	RES.CHIP 1/16W 47K OHM	R0E3	0790061R	RES.CHIP 1/16W 56K OHM
R019	0790024R	RES.CHIP 1/16W 100 OHM	R0E4	0790051R	RES.CHIP 1/16W 10K OHM
R020	0790024R	RES.CHIP 1/16W 100 OHM	R0F1	0790024R	RES.CHIP 1/16W 100 OHM
R022	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R0F2	0790024R	RES.CHIP 1/16W 100 OHM
R023	0790059R	RES.CHIP 1/16W 47K OHM	R0F3	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R025	0790046R	RES.CHIP 1/16W 4.7K OHM	R0F4	0790051R	RES.CHIP 1/16W 10K OHM
R026	0790024R	RES.CHIP 1/16W 100 OHM	R0F5	0790024R	RES.CHIP 1/16W 100 OHM
R027	0790024R	RES.CHIP 1/16W 100 OHM	R0F6	0790024R	RES.CHIP 1/16W 100 OHM
R028	0790059R	RES.CHIP 1/16W 47K OHM	R0F7	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R029	0790024R	RES.CHIP 1/16W 100 OHM	R0F8	0790024R	RES.CHIP 1/16W 100 OHM
R030	0790051R	RES.CHIP 1/16W 10K OHM	R0H1	0790024R	RES.CHIP 1/16W 100 OHM
R031	0790051R	RES.CHIP 1/16W 10K OHM	R0H2	0790024R	RES.CHIP 1/16W 100 OHM
R032	0790028R	RES.CHIP 1/16W 220 OHM	R0H4	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R033	0790035R	RES.CHIP 1/16W 680 OHM	R0K1	0790042R	RES.CHIP 1/16W 2.2K OHM
R034	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)	R0K2	0790042R	RES.CHIP 1/16W 2.2K OHM
R035	0790051R	RES.CHIP 1/16W 10K OHM	R0K3	0790024R	RES.CHIP 1/16W 100 OHM
R036	0790051R	RES.CHIP 1/16W 10K OHM	R0L1	0790042R	RES.CHIP 1/16W 2.2K OHM
R037	0790051R	RES.CHIP 1/16W 10K OHM	R0L2	0790042R	RES.CHIP 1/16W 2.2K OHM
R038	0790051R	RES.CHIP 1/16W 10K OHM	R101	0790037R	RES.CHIP 1/16W 1.0K OHM
R039	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)	R102	0790037R	RES.CHIP 1/16W 1.0K OHM
R040	0790051R	RES.CHIP 1/16W 10K OHM	R103	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R043	0790037R	RES.CHIP 1/16W 1.0K OHM	R104	0790051R	RES.CHIP 1/16W 10K OHM
R044	0790037R	RES.CHIP 1/16W 1.0K OHM	R105	0790024R	RES.CHIP 1/16W 100 OHM
R045	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)	R106	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R048	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R107	0790055R	RES.CHIP 1/16W 22K OHM
R049	0790051R	RES.CHIP 1/16W 10K OHM	R108	0790037R	RES.CHIP 1/16W 1.0K OHM
R050	0790051R	RES.CHIP 1/16W 10K OHM	R110	0790024R	RES.CHIP 1/16W 100 OHM
R051	0790059R	RES.CHIP 1/16W 47K OHM	R118	0790024R	RES.CHIP 1/16W 100 OHM
R052	0790059R	RES.CHIP 1/16W 47K OHM	R119	0790024R	RES.CHIP 1/16W 100 OHM
R053	0790051R	RES.CHIP 1/16W 10K OHM	R120	0790051R	RES.CHIP 1/16W 10K OHM
R054	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)	R123	0790037R	RES.CHIP 1/16W 1.0K OHM
R058	0790046R	RES.CHIP 1/16W 4.7K OHM	R124	0790037R	RES.CHIP 1/16W 1.0K OHM
R059	0790046R	RES.CHIP 1/16W 4.7K OHM	R125	0790037R	RES.CHIP 1/16W 1.0K OHM
R060	0790051R	RES.CHIP 1/16W 10K OHM	R126	0790043R	RES.CHIP 1/16W 2.7K OHM
R062	0790051R	RES.CHIP 1/16W 10K OHM	R127	0790043R	RES.CHIP 1/16W 2.7K OHM
R063	0790037R	RES.CHIP 1/16W 1.0K OHM	R128	0790043R	RES.CHIP 1/16W 2.7K OHM
R064	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)	R129	0790024R	RES.CHIP 1/16W 100 OHM
R065	0790024R	RES.CHIP 1/16W 100 OHM	R130	0790037R	RES.CHIP 1/16W 1.0K OHM
R066	0790024R	RES.CHIP 1/16W 100 OHM	R135	0790024R	RES.CHIP 1/16W 100 OHM
R068	0790051R	RES.CHIP 1/16W 10K OHM	R136	0790024R	RES.CHIP 1/16W 100 OHM
R069	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)	R137	0790037R	RES.CHIP 1/16W 1.0K OHM

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R138	0790037R	RES.CHIP 1/16W 1.0K OHM	R268	0790057R	RES.CHIP 1/16W 33K OHM
R139	0790051R	RES.CHIP 1/16W 10K OHM	R269	0790051R	RES.CHIP 1/16W 10K OHM
R140	0790051R	RES.CHIP 1/16W 10K OHM	R270	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R141	0790051R	RES.CHIP 1/16W 10K OHM	R271	0790051R	RES.CHIP 1/16W 10K OHM
R143	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R272	0790059R	RES.CHIP 1/16W 47K OHM
R144	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R273	0790046R	RES.CHIP 1/16W 4.7K OHM
R150	0790024R	RES.CHIP 1/16W 100 OHM	R274	0790047R	RES.CHIP 1/16W 5.6K OHM
R151	0790059R	RES.CHIP 1/16W 47K OHM	R280	0790024R	RES.CHIP 1/16W 100 OHM
R152	0790047R	RES.CHIP 1/16W 5.6K OHM	R281	0790042R	RES.CHIP 1/16W 2.2K OHM
R153	0790052R	RES.CHIP 1/16W 12K OHM	R282	0790037R	RES.CHIP 1/16W 1.0K OHM
R154	0790024R	RES.CHIP 1/16W 100 OHM	R283	0790064R	RES.CHIP 1/16W 100K OHM
R155	0790047R	RES.CHIP 1/16W 5.6K OHM	R284	0790037R	RES.CHIP 1/16W 1.0K OHM
R156	0790038R	RES.CHIP 1/16W 1.2K OHM	R285	0790037R	RES.CHIP 1/16W 1.0K OHM
R157	0790041R	RES.CHIP 1/16W 1.8K OHM	R286	0790064R	RES.CHIP 1/16W 100K OHM
R158	0790031R	RES.CHIP 1/16W 330 OHM	R287	0790047R	RES.CHIP 1/16W 5.6K OHM
R159	0790031R	RES.CHIP 1/16W 330 OHM	R288	0790047R	RES.CHIP 1/16W 5.6K OHM
R170	0790033R	RES.CHIP 1/16W 470 OHM	R289	0790069R	RES.CHIP 1/16W 270K OHM
R171	0790077R	RES.CHIP 1/16W 1.0M OHM	R290	0790056R	RES.CHIP 1/16W 27K OHM
R172	0790042R	RES.CHIP 1/16W 2.2K OHM	R291	0790056R	RES.CHIP 1/16W 27K OHM
R173	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R292	0790046R	RES.CHIP 1/16W 4.7K OHM
R174	0790024R	RES.CHIP 1/16W 100 OHM	R293	0790028R	RES.CHIP 1/16W 220 OHM
R180	0790033R	RES.CHIP 1/16W 470 OHM	R294	0790037R	RES.CHIP 1/16W 1.0K OHM
R181	0790077R	RES.CHIP 1/16W 1.0M OHM	R295	0790028R	RES.CHIP 1/16W 220 OHM
R182	0790042R	RES.CHIP 1/16W 2.2K OHM	R301	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R183	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R304	0790028R	RES.CHIP 1/16W 220 OHM
R184	0790024R	RES.CHIP 1/16W 100 OHM	R305	0790028R	RES.CHIP 1/16W 220 OHM
R190	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R306	0790028R	RES.CHIP 1/16W 220 OHM
R192	0790051R	RES.CHIP 1/16W 10K OHM	R308	0790028R	RES.CHIP 1/16W 220 OHM
R193	0790051R	RES.CHIP 1/16W 10K OHM	R311	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R201	0790051R	RES.CHIP 1/16W 10K OHM	R315	0790044R	RES.CHIP 1/16W 3.3K OHM
R203	0790037R	RES.CHIP 1/16W 1.0K OHM	R318	0790051R	RES.CHIP 1/16W 10K OHM
R204	0790037R	RES.CHIP 1/16W 1.0K OHM	R319	0790044R	RES.CHIP 1/16W 3.3K OHM
R205	0790051R	RES.CHIP 1/16W 10K OHM	R321	0790051R	RES.CHIP 1/16W 10K OHM
R206	0790051R	RES.CHIP 1/16W 10K OHM	R322	0790045R	RES.CHIP 1/16W 3.9K OHM
R207	0790053R	RES.CHIP 1/16W 15K OHM	R323	0790024R	RES.CHIP 1/16W 100 OHM
R208	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R324	0790037R	RES.CHIP 1/16W 1.0K OHM
R209	0790024R	RES.CHIP 1/16W 100 OHM	R325	0790037R	RES.CHIP 1/16W 1.0K OHM
R210	0790024R	RES.CHIP 1/16W 100 OHM	R326	0790044R	RES.CHIP 1/16W 3.3K OHM
R211	0790024R	RES.CHIP 1/16W 100 OHM	R328	0790024R	RES.CHIP 1/16W 100 OHM
R213	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R329	0790024R	RES.CHIP 1/16W 100 OHM
R214	0790059R	RES.CHIP 1/16W 47K OHM	R336	0790059R	RES.CHIP 1/16W 47K OHM
R215	0790064R	RES.CHIP 1/16W 100K OHM	R339	0790059R	RES.CHIP 1/16W 47K OHM
R216	0790024R	RES.CHIP 1/16W 100 OHM	R342	0790051R	RES.CHIP 1/16W 10K OHM
R217	0790031R	RES.CHIP 1/16W 330 OHM	R343	0790051R	RES.CHIP 1/16W 10K OHM
R218	0790031R	RES.CHIP 1/16W 330 OHM	R347	0790051R	RES.CHIP 1/16W 10K OHM
R219	0790021R	RES.CHIP 1/16W 56 OHM	R349	0790051R	RES.CHIP 1/16W 10K OHM
R220	0790021R	RES.CHIP 1/16W 56 OHM	R350	0790051R	RES.CHIP 1/16W 10K OHM
R221	0790015R	RES.CHIP 1/16W 22 OHM	R353	0790051R	RES.CHIP 1/16W 10K OHM
R222	0790015R	RES.CHIP 1/16W 22 OHM	R3P1	0790024R	RES.CHIP 1/16W 100 OHM
R223	0790012R	RES.CHIP 1/16W 12 OHM	R3P2	0790051R	RES.CHIP 1/16W 10K OHM
R225	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R401	0790024R	RES.CHIP 1/16W 100 OHM
R226	0790051R	RES.CHIP 1/16W 10K OHM	R402	0790051R	RES.CHIP 1/16W 10K OHM
R227	0790012R	RES.CHIP 1/16W 12 OHM	R403	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R228	0790012R	RES.CHIP 1/16W 12 OHM	R404	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R229	0790012R	RES.CHIP 1/16W 12 OHM	R405	0790068R	RES.CHIP 1/16W 220K OHM
R230	0790051R	RES.CHIP 1/16W 10K OHM	R406	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE
R231	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)	R407	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE
R233	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)	R408	0790042R	RES.CHIP 1/16W 2.2K OHM
R235	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R409	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R237	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R410	0790024R	RES.CHIP 1/16W 100 OHM
R250	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R411	0790051R	RES.CHIP 1/16W 10K OHM
R252	0790024R	RES.CHIP 1/16W 100 OHM	R412	0790024R	RES.CHIP 1/16W 100 OHM
R253	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R413	0790024R	RES.CHIP 1/16W 100 OHM
R254	0790024R	RES.CHIP 1/16W 100 OHM	R414	0790037R	RES.CHIP 1/16W 1.0K OHM
R255	0790024R	RES.CHIP 1/16W 100 OHM	R415	0790024R	RES.CHIP 1/16W 100 OHM
R257	0790024R	RES.CHIP 1/16W 100 OHM	R416	0790024R	RES.CHIP 1/16W 100 OHM
R258	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R417	0790024R	RES.CHIP 1/16W 100 OHM
R260	0790059R	RES.CHIP 1/16W 47K OHM	R418	0790037R	RES.CHIP 1/16W 1.0K OHM
R261	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R419	0790024R	RES.CHIP 1/16W 100 OHM
R262	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R420	0790051R	RES.CHIP 1/16W 10K OHM
R263	0790024R	RES.CHIP 1/16W 100 OHM	R421	0790024R	RES.CHIP 1/16W 100 OHM
R264	0790024R	RES.CHIP 1/16W 100 OHM	R422	0790024R	RES.CHIP 1/16W 100 OHM
R265	0790024R	RES.CHIP 1/16W 100 OHM	R423	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE
R266	0790044R	RES.CHIP 1/16W 3.3K OHM	R424	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE
R267	0790037R	RES.CHIP 1/16W 1.0K OHM	R425	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R426	0790051R	RES.CHIP 1/16W 10K OHM	R4E6	0790042R	RES.CHIP 1/16W 2.2K OHM
R427	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE	R4E7	0790042R	RES.CHIP 1/16W 2.2K OHM
R428	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE	R4E8	0790042R	RES.CHIP 1/16W 2.2K OHM
R429	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE	R4E9	0790042R	RES.CHIP 1/16W 2.2K OHM
R430	0790051R	RES.CHIP 1/16W 10K OHM	R4F0	0790042R	RES.CHIP 1/16W 2.2K OHM
R431	0790068R	RES.CHIP 1/16W 220K OHM	R4F1	0790042R	RES.CHIP 1/16W 2.2K OHM
R432	0790042R	RES.CHIP 1/16W 2.2K OHM	R4F2	0790042R	RES.CHIP 1/16W 2.2K OHM
R433	0790024R	RES.CHIP 1/16W 100 OHM	R4F3	0790042R	RES.CHIP 1/16W 2.2K OHM
R434	0790024R	RES.CHIP 1/16W 100 OHM	R4F4	0790042R	RES.CHIP 1/16W 2.2K OHM
R435	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R4F5	0790042R	RES.CHIP 1/16W 2.2K OHM
R436	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R4F6	0790042R	RES.CHIP 1/16W 2.2K OHM
R437	0790041R	RES.CHIP 1/16W 1.8K OHM	R4F7	0790042R	RES.CHIP 1/16W 2.2K OHM
R438	0790051R	RES.CHIP 1/16W 10K OHM	R4F8	0790042R	RES.CHIP 1/16W 2.2K OHM
R439	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R4F9	0790042R	RES.CHIP 1/16W 2.2K OHM
R440	0790037R	RES.CHIP 1/16W 1.0K OHM	R4G0	0790024R	RES.CHIP 1/16W 100 OHM
R441	0790041R	RES.CHIP 1/16W 1.8K OHM	R4G1	0790024R	RES.CHIP 1/16W 100 OHM
R442	0790024R	RES.CHIP 1/16W 100 OHM	R4G2	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R444	0790064R	RES.CHIP 1/16W 100K OHM	R4H0	0790024R	RES.CHIP 1/16W 100 OHM
R445	0790064R	RES.CHIP 1/16W 100K OHM	R4H1	0790059R	RES.CHIP 1/16W 47K OHM
R446	0790024R	RES.CHIP 1/16W 100 OHM	R4H2	0790055R	RES.CHIP 1/16W 22K OHM
R448	0790064R	RES.CHIP 1/16W 100K OHM	R4H3	0790051R	RES.CHIP 1/16W 10K OHM
R449	0790037R	RES.CHIP 1/16W 1.0K OHM	R4H5	0790063R	RES.CHIP 1/16W 82K OHM
R452	0790024R	RES.CHIP 1/16W 100 OHM	R4H8	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R453	0790064R	RES.CHIP 1/16W 100K OHM	R4K5	0790051R	RES.CHIP 1/16W 10K OHM
R454	0790024R	RES.CHIP 1/16W 100 OHM	R4K6	0790051R	RES.CHIP 1/16W 10K OHM
R455	0790064R	RES.CHIP 1/16W 100K OHM	R4K7	0790051R	RES.CHIP 1/16W 10K OHM
R456	AQ00163R	RES.CHIP 1/16W 68 OHM TAPE	R4K8	0790051R	RES.CHIP 1/16W 10K OHM
R457	AQ00163R	RES.CHIP 1/16W 68 OHM TAPE	R4K9	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE
R458	AQ00163R	RES.CHIP 1/16W 68 OHM TAPE	R4L1	0790024R	RES.CHIP 1/16W 100 OHM
R459	0790034R	RES.CHIP 1/16W 560 OHM	R4L2	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R460	0790024R	RES.CHIP 1/16W 100 OHM	R4L8	0790024R	RES.CHIP 1/16W 100 OHM
R461	0790024R	RES.CHIP 1/16W 100 OHM	R4M0	0790034R	RES.CHIP 1/16W 560 OHM
R462	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE	R4M1	0790024R	RES.CHIP 1/16W 100 OHM
R463	0790028R	RES.CHIP 1/16W 220 OHM	R4M5	0790041R	RES.CHIP 1/16W 1.8K OHM
R464	0790028R	RES.CHIP 1/16W 220 OHM	R4M6	0790035R	RES.CHIP 1/16W 680 OHM
R465	0790037R	RES.CHIP 1/16W 1.0K OHM	R4M7	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R466	0790024R	RES.CHIP 1/16W 100 OHM	R4M8	0790027R	RES.CHIP 1/16W 180 OHM
R467	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE	R4M9	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R468	0790041R	RES.CHIP 1/16W 1.8K OHM	R4N0	0790024R	RES.CHIP 1/16W 100 OHM
R469	0790041R	RES.CHIP 1/16W 1.8K OHM	R4N1	0790035R	RES.CHIP 1/16W 680 OHM
R470	0790024R	RES.CHIP 1/16W 100 OHM	R4N3	0790035R	RES.CHIP 1/16W 680 OHM
R472	0790024R	RES.CHIP 1/16W 100 OHM	R4N4	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R474	0790024R	RES.CHIP 1/16W 100 OHM	R4N5	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R475	0790024R	RES.CHIP 1/16W 100 OHM	R4P1	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R476	0790024R	RES.CHIP 1/16W 100 OHM	R4P2	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R477	0790024R	RES.CHIP 1/16W 100 OHM	R4P3	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R478	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE	R4P4	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R479	0790024R	RES.CHIP 1/16W 100 OHM	R501	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R480	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE	R502	0790024R	RES.CHIP 1/16W 100 OHM
R481	0790024R	RES.CHIP 1/16W 100 OHM	R503	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R482	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE	R504	0790024R	RES.CHIP 1/16W 100 OHM
R483	0790063R	RES.CHIP 1/16W 82K OHM	R505	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R484	0790024R	RES.CHIP 1/16W 100 OHM	R506	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R485	0790063R	RES.CHIP 1/16W 82K OHM	R507	0790024R	RES.CHIP 1/16W 100 OHM
R486	0790024R	RES.CHIP 1/16W 100 OHM	R508	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R487	0790024R	RES.CHIP 1/16W 100 OHM	R509	0790024R	RES.CHIP 1/16W 100 OHM
R488	0790024R	RES.CHIP 1/16W 100 OHM	R510	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R489	0790024R	RES.CHIP 1/16W 100 OHM	R515	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R490	0790024R	RES.CHIP 1/16W 100 OHM	R516	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R491	0790024R	RES.CHIP 1/16W 100 OHM	R517	0790037R	RES.CHIP 1/16W 1.0K OHM
R495	0790046R	RES.CHIP 1/16W 4.7K OHM	R518	0790024R	RES.CHIP 1/16W 100 OHM
R496	0790046R	RES.CHIP 1/16W 4.7K OHM	R519	0790037R	RES.CHIP 1/16W 1.0K OHM
R4A2	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE	R520	0790046R	RES.CHIP 1/16W 4.7K OHM
R4A3	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE	R521	0790024R	RES.CHIP 1/16W 100 OHM
R4A6	0790037R	RES.CHIP 1/16W 1.0K OHM	R522	0790024R	RES.CHIP 1/16W 100 OHM
R4A7	0790037R	RES.CHIP 1/16W 1.0K OHM	R523	AQ00244R	RES.CHIP 1/16W 75K OHM TAPE
R4A8	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE	R524	0790029R	RES.CHIP 1/16W 270 OHM
R4C8	0790042R	RES.CHIP 1/16W 2.2K OHM	R525	0790024R	RES.CHIP 1/16W 100 OHM
R4C9	0790042R	RES.CHIP 1/16W 2.2K OHM	R526	0790024R	RES.CHIP 1/16W 100 OHM
R4E0	0790042R	RES.CHIP 1/16W 2.2K OHM	R527	0790034R	RES.CHIP 1/16W 560 OHM
R4E1	0790042R	RES.CHIP 1/16W 2.2K OHM	R528	0790034R	RES.CHIP 1/16W 560 OHM
R4E2	0790042R	RES.CHIP 1/16W 2.2K OHM	R529	0790029R	RES.CHIP 1/16W 270 OHM
R4E3	0790042R	RES.CHIP 1/16W 2.2K OHM	R533	0196153R	RES 1608 CHIP 1/16W 2.7MJ TAPE
R4E4	0790042R	RES.CHIP 1/16W 2.2K OHM	R536	0196153R	RES 1608 CHIP 1/16W 2.7MJ TAPE
R4E5	0790042R	RES.CHIP 1/16W 2.2K OHM	R538	0790024R	RES.CHIP 1/16W 100 OHM

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SYMBOL NO.	PART NO.	PART DESCRIPTION
R539	0790024R	RES.CHIP 1/16W 100 OHM
R540	0790024R	RES.CHIP 1/16W 100 OHM
R541	0790024R	RES.CHIP 1/16W 100 OHM
R542	0790024R	RES.CHIP 1/16W 100 OHM
R543	0790024R	RES.CHIP 1/16W 100 OHM
R544	0790024R	RES.CHIP 1/16W 100 OHM
R549	0790037R	RES.CHIP 1/16W 1.0K OHM
R550	0790024R	RES.CHIP 1/16W 100 OHM
R551	0790037R	RES.CHIP 1/16W 1.0K OHM
R552	0790046R	RES.CHIP 1/16W 4.7K OHM
R553	0790024R	RES.CHIP 1/16W 100 OHM
R554	0790024R	RES.CHIP 1/16W 100 OHM
R555	0790029R	RES.CHIP 1/16W 270 OHM
R556	0790024R	RES.CHIP 1/16W 100 OHM
R557	0790024R	RES.CHIP 1/16W 100 OHM
R558	AQ00244R	RES.CHIP 1/16W 75K OHM TAPE
R559	0790034R	RES.CHIP 1/16W 560 OHM
R560	0790034R	RES.CHIP 1/16W 560 OHM
R561	0790029R	RES.CHIP 1/16W 270 OHM
R562	0790024R	RES.CHIP 1/16W 100 OHM
R563	0790024R	RES.CHIP 1/16W 100 OHM
R564	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R566	0790024R	RES.CHIP 1/16W 100 OHM
R567	0790024R	RES.CHIP 1/16W 100 OHM
R570	0790024R	RES.CHIP 1/16W 100 OHM
R571	0790024R	RES.CHIP 1/16W 100 OHM
R572	0790024R	RES.CHIP 1/16W 100 OHM
R575	0790024R	RES.CHIP 1/16W 100 OHM
R576	AQ00185R	RES.CHIP 1/16W 470 OHM TAPE
R577	AQ00187R	RES.CHIP 1/16W 560 OHM TAPE
R578	0790046R	RES.CHIP 1/16W 4.7K OHM
R579	AQ00207R	RES.CHIP 1/16W 3.3K OHM TAPE
R580	AQ00212R	RES.CHIP 1/16W 4.7K OHM TAPE
R581	0790048R	RES.CHIP 1/16W 6.8K OHM
R582	0790044R	RES.CHIP 1/16W 3.3K OHM
R583	0790042R	RES.CHIP 1/16W 2.2K OHM
R584	0790042R	RES.CHIP 1/16W 2.2K OHM
R585	0790042R	RES.CHIP 1/16W 2.2K OHM
R586	0790024R	RES.CHIP 1/16W 100 OHM
R587	0790024R	RES.CHIP 1/16W 100 OHM
R589	0790024R	RES.CHIP 1/16W 100 OHM
R590	0790024R	RES.CHIP 1/16W 100 OHM
R592	0790024R	RES.CHIP 1/16W 100 OHM
R593	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R594	0790021R	RES.CHIP 1/16W 56 OHM
R595	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R596	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R597	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R598	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R5A0	0790024R	RES.CHIP 1/16W 100 OHM
R5A1	0790024R	RES.CHIP 1/16W 100 OHM
R5A2	0790024R	RES.CHIP 1/16W 100 OHM
R5A5	0790024R	RES.CHIP 1/16W 100 OHM
R5A6	AQ00185R	RES.CHIP 1/16W 470 OHM TAPE
R5A7	AQ00187R	RES.CHIP 1/16W 560 OHM TAPE
R5A8	0790046R	RES.CHIP 1/16W 4.7K OHM
R5A9	AQ00207R	RES.CHIP 1/16W 3.3K OHM TAPE
R5C0	AQ00212R	RES.CHIP 1/16W 4.7K OHM TAPE
R5C1	0790048R	RES.CHIP 1/16W 6.8K OHM
R5C2	0790044R	RES.CHIP 1/16W 3.3K OHM
R5C3	0196153R	RES 1608 CHIP 1/16W 2.7MJ TAPE
R5E0	0790021R	RES.CHIP 1/16W 56 OHM
R5E1	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R5E2	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R5E5	0196153R	RES 1608 CHIP 1/16W 2.7MJ TAPE
R5E8	0196153R	RES 1608 CHIP 1/16W 2.7MJ TAPE
R5F8	0790051R	RES.CHIP 1/16W 10K OHM
R5F9	0196089R	RES.-1608CHIP 1/16W 7.5K-J TAPE
R5H2	0790024R	RES.CHIP 1/16W 100 OHM
R5H4	0790024R	RES.CHIP 1/16W 100 OHM
R5H5	0790037R	RES.CHIP 1/16W 1.0K OHM
R5H6	0790024R	RES.CHIP 1/16W 100 OHM
R5H7	0790037R	RES.CHIP 1/16W 1.0K OHM
R5H8	0790059R	RES.CHIP 1/16W 47K OHM
R5H9	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)
R5K2	AQ00201R	RES.CHIP 1/16W 1.8K OHM TAPE
R5K3	AQ00218R	RES.CHIP 1/16W 8.2K OHM TAPE
R5K5	0790041R	RES.CHIP 1/16W 1.8K OHM
R5K6	0790041R	RES.CHIP 1/16W 1.8K OHM
R5K7	0790051R	RES.CHIP 1/16W 10K OHM
R5K8	0196089R	RES.-1608CHIP 1/16W 7.5K-J TAPE
R5L2	AQ00201R	RES.CHIP 1/16W 1.8K OHM TAPE
R5L3	AQ00218R	RES.CHIP 1/16W 8.2K OHM TAPE
R5L5	0790041R	RES.CHIP 1/16W 1.8K OHM
R5L6	0790041R	RES.CHIP 1/16W 1.8K OHM
R5N1	0790024R	RES.CHIP 1/16W 100 OHM
R5N3	0790043R	RES.CHIP 1/16W 2.7K OHM
R5N4	0790024R	RES.CHIP 1/16W 100 OHM
R5N6	0790043R	RES.CHIP 1/16W 2.7K OHM
R5N7	AQ00207R	RES.CHIP 1/16W 3.3K OHM TAPE
R5N8	AQ00218R	RES.CHIP 1/16W 8.2K OHM TAPE
R5N9	0790043R	RES.CHIP 1/16W 2.7K OHM
R5P0	0790024R	RES.CHIP 1/16W 100 OHM
R5P4	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R5T1	0790024R	RES.CHIP 1/16W 100 OHM
R5T3	0790043R	RES.CHIP 1/16W 2.7K OHM
R5T4	0790024R	RES.CHIP 1/16W 100 OHM
R5T6	0790043R	RES.CHIP 1/16W 2.7K OHM
R5T7	AQ00207R	RES.CHIP 1/16W 3.3K OHM TAPE
R5T8	AQ00218R	RES.CHIP 1/16W 8.2K OHM TAPE
R5T9	0790043R	RES.CHIP 1/16W 2.7K OHM
⚠ R901	AT03672M	RES.MTL GRAZD FLM 1/2W 3.3M
R903	0179536M	RES.-METAL GRAZED FILM 1M J TAPE
R904	AT03464S	METAL OX. 22K OHM 2W
R905	0100037M	RES.-CARBON FLM 1/8W 68-JB
R906	0147612	RES.-WIRE WOUND 7W 1.2-K
R907	0790035R	RES.CHIP 1/16W 680 OHM
R908	0148016	RES.WIRE WOUND 2W 0.22 OHM CEMENTED
R909	0790044R	RES.CHIP 1/16W 3.3K OHM
R910	0188157M	RES.-CARBON FLM 100K-J 1/2W
R913	AT02525R	METAL OXIDE RESISTOR (100OHM 3W)
R915	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R916	0100069M	RES.-CARBON FLM 1/8W 1.5K-JB
R931	0188091M	RDL-1R0J1-02LT
R933	0188091M	RDL-1R0J1-02LT
R934	0790037R	RES.CHIP 1/16W 1.0K OHM
R935	0790046R	RES.CHIP 1/16W 4.7K OHM
R937	0790051R	RES.CHIP 1/16W 10K OHM
R938	0188091M	RDL-1R0J1-02LT
R939	0790037R	RES.CHIP 1/16W 1.0K OHM
R940	0100107M	RES.-CARBON FLM 1/8W 56K-JB
R941	0790049R	RES.CHIP 1/16W 8.2K OHM
R944	0790037R	RES.CHIP 1/16W 1.0K OHM
R946	0790037R	RES.CHIP 1/16W 1.0K OHM
R947	0790042R	RES.CHIP 1/16W 2.2K OHM
R948	0790051R	RES.CHIP 1/16W 10K OHM
R949	0790019R	RES.CHIP 1/16W 47 OHM
R950	AQ00203R	RES.CHIP 1/16W 2.2K OHM TAPE
R951	AQ00185R	RES.CHIP 1/16W 470 OHM TAPE
R952	0790064R	RES.CHIP 1/16W 100K OHM
R954	0790037R	RES.CHIP 1/16W 1.0K OHM
R955	0790032R	RES.CHIP 1/16W 390 OHM
R956	0790055R	RES.CHIP 1/16W 22K OHM
R957	0790051R	RES.CHIP 1/16W 10K OHM
R958	0790037R	RES.CHIP 1/16W 1.0K OHM
R959	0790037R	RES.CHIP 1/16W 1.0K OHM
R960	0790051R	RES.CHIP 1/16W 10K OHM
R961	0790051R	RES.CHIP 1/16W 10K OHM
R962	0790051R	RES.CHIP 1/16W 10K OHM
R963	0790046R	RES.CHIP 1/16W 4.7K OHM
R964	0790037R	RES.CHIP 1/16W 1.0K OHM
R967	AQ00209R	RES.CHIP 1/16W 3.9K OHM TAPE
R968	AQ00206R	RES.CHIP 1/16W 3.0K OHM TAPE
R982	0790051R	RES.CHIP 1/16W 10K OHM
R985	0790037R	RES.CHIP 1/16W 1.0K OHM
R987	0790051R	RES.CHIP 1/16W 10K OHM
R988	0790037R	RES.CHIP 1/16W 1.0K OHM
R989	0790051R	RES.CHIP 1/16W 10K OHM
R996	0188125M	RES.-CARBON FLM 390-J 1/2W
R997	0790053R	RES.CHIP 1/16W 15K OHM

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SYMBOL NO.	PART NO.	PART DESCRIPTION
R998	0790058R	RES.CHIP 1/16W 39K OHM
R999	0790053R	RES.CHIP 1/16W 15K OHM
RA01	0790024R	RES.CHIP 1/16W 100 OHM
RA02	0790024R	RES.CHIP 1/16W 100 OHM
RA03	0790043R	RES.CHIP 1/16W 2.7K OHM
RA04	0790043R	RES.CHIP 1/16W 2.7K OHM
RA05	0790028R	RES.CHIP 1/16W 220 OHM
RA06	0790028R	RES.CHIP 1/16W 220 OHM
RA07	0790063R	RES.CHIP 1/16W 82K OHM
RA08	0790063R	RES.CHIP 1/16W 82K OHM
RA09	0790037R	RES.CHIP 1/16W 1.0K OHM
RA10	0790037R	RES.CHIP 1/16W 1.0K OHM
RA11	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RA12	0790051R	RES.CHIP 1/16W 10K OHM
RA13	0790037R	RES.CHIP 1/16W 1.0K OHM
RA14	0790037R	RES.CHIP 1/16W 1.0K OHM
RA16	0790037R	RES.CHIP 1/16W 1.0K OHM
RA17	0790037R	RES.CHIP 1/16W 1.0K OHM
RA18	0790063R	RES.CHIP 1/16W 82K OHM
RA19	0790063R	RES.CHIP 1/16W 82K OHM
RA20	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RA21	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RA22	0790028R	RES.CHIP 1/16W 220 OHM
RA23	0790028R	RES.CHIP 1/16W 220 OHM
RA24	0790043R	RES.CHIP 1/16W 2.7K OHM
RA25	0790043R	RES.CHIP 1/16W 2.7K OHM
RA26	0790024R	RES.CHIP 1/16W 100 OHM
RA27	0790024R	RES.CHIP 1/16W 100 OHM
RA28	AT03669M	RES.MTL GRAZD FLM 1/2W 2.2M
RA31	0790046R	RES.CHIP 1/16W 4.7K OHM
RA32	0790044R	RES.CHIP 1/16W 3.3K OHM
RA33	0790048R	RES.CHIP 1/16W 6.8K OHM
RA34	0790047R	RES.CHIP 1/16W 5.6K OHM
RA35	0790042R	RES.CHIP 1/16W 2.2K OHM
RA36	0790037R	RES.CHIP 1/16W 1.0K OHM
RA37	0790061R	RES.CHIP 1/16W 56K OHM
RA38	0790051R	RES.CHIP 1/16W 10K OHM
RA39	0790061R	RES.CHIP 1/16W 56K OHM
RA41	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RA42	AQ00022R	RES.CHIP 1/16W 68 OHM (4 R)
RA43	0790037R	RES.CHIP 1/16W 1.0K OHM
RA44	0790047R	RES.CHIP 1/16W 5.6K OHM
RA45	0790047R	RES.CHIP 1/16W 5.6K OHM
RA46	AQ00022R	RES.CHIP 1/16W 68 OHM (4 R)
RA47	0790024R	RES.CHIP 1/16W 100 OHM
RA48	0790037R	RES.CHIP 1/16W 1.0K OHM
RA49	0790047R	RES.CHIP 1/16W 5.6K OHM
RA50	0790066R	RES.CHIP 1/16W 150K OHM
RA51	0790066R	RES.CHIP 1/16W 150K OHM
RA52	0790039R	RES.CHIP 1/16W 1.5K OHM
RA53	0790034R	RES.CHIP 1/16W 560 OHM
RA54	0790024R	RES.CHIP 1/16W 100 OHM
RA55	0790034R	RES.CHIP 1/16W 560 OHM
RA56	0790039R	RES.CHIP 1/16W 1.5K OHM
RA57	0790034R	RES.CHIP 1/16W 560 OHM
RA58	0790024R	RES.CHIP 1/16W 100 OHM
RA59	0790034R	RES.CHIP 1/16W 560 OHM
RA60	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)
RA61	AQ00024R	RES.CHIP 1/16W 100 OHM (4 R)
RA62	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RA63	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RP02	0790052R	RES.CHIP 1/16W 12K OHM
RP03	0790051R	RES.CHIP 1/16W 10K OHM
RP05	0790064R	RES.CHIP 1/16W 100K OHM
RP06	0790077R	RES.CHIP 1/16W 1.0M OHM
RP12	0790018R	RES.CHIP 1/16W 39 OHM
RP16	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
RP22	0195250R	RES 2125 CHIP JAMPER WIRE
RP25	AT01532S	METAL FILM RESISTOR(0.12OHM 1/2W)
RP26	AT01532S	METAL FILM RESISTOR(0.12OHM 1/2W)
RP27	0195250R	RES 2125 CHIP JAMPER WIRE
RP29	0196888R	RES 2125CHIP 1/10W1.0K-F TAPE
RP30	0196896R	RES 2125CHIP 1/16W2.2K-F TAPE
RP31	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RP32	0790024R	RES.CHIP 1/16W 100 OHM
RP33	0790024R	RES.CHIP 1/16W 100 OHM
RP34	0790051R	RES.CHIP 1/16W 10K OHM
RP35	0790024R	RES.CHIP 1/16W 100 OHM
RP37	0790064R	RES.CHIP 1/16W 100K OHM
RP38	0790077R	RES.CHIP 1/16W 1.0M OHM
RP39	0790018R	RES.CHIP 1/16W 39 OHM
RP40	0790037R	RES.CHIP 1/16W 1.0K OHM
RP41	0790037R	RES.CHIP 1/16W 1.0K OHM
RP42	0790073R	RES.CHIP 1/16W 470K OHM
RP43	0790051R	RES.CHIP 1/16W 10K OHM
RP45	AT01532S	METAL FILM RESISTOR(0.12OHM 1/2W)
RP46	0195925R	RES 2125 CHIP 1/16W 10K-J TAPE
RP47	AT01533S	METAL FILM RESISTOR(0.15OHM1/2
RP48	AT01533S	METAL FILM RESISTOR(0.15OHM1/2
RP49	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RP50	0195875R	RES 2125 CHIP 1/16W 100-J TAPE
RP51	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RP52	0195900R	RES 2125 CHIP 1/16W 1.0K-J TAPE
RP53	0196893R	RES 2125CHIP 1/16W1.6K-F TAPE
RP54	0196895R	RES 2125CHIP 1/16W2.0K-F TAPE
RP57	0790061R	RES.CHIP 1/16W 56K OHM
RP58	0790055R	RES.CHIP 1/16W 22K OHM
RP61	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RV01	0790059R	RES.CHIP 1/16W 47K OHM
RV02	0790058R	RES.CHIP 1/16W 39K OHM
RV03	0790024R	RES.CHIP 1/16W 100 OHM
RV04	0790035R	RES.CHIP 1/16W 680 OHM
RV05	AQ00194R	RES.CHIP 1/16W 1.0K OHM TAPE
RV06	0790051R	RES.CHIP 1/16W 10K OHM
RV07	AQ00194R	RES.CHIP 1/16W 1.0K OHM TAPE
RV08	AQ00185R	RES.CHIP 1/16W 470 OHM TAPE
RV09	0790024R	RES.CHIP 1/16W 100 OHM
RV10	0790024R	RES.CHIP 1/16W 100 OHM
RV11	0790024R	RES.CHIP 1/16W 100 OHM
RV12	0790059R	RES.CHIP 1/16W 47K OHM
RV13	0790058R	RES.CHIP 1/16W 39K OHM
RV14	0790024R	RES.CHIP 1/16W 100 OHM
RV15	0790046R	RES.CHIP 1/16W 4.7K OHM
RV16	AQ00191R	RES.CHIP 1/16W 750 OHM TAPE
RV17	0790042R	RES.CHIP 1/16W 2.2K OHM
RV18	0790035R	RES.CHIP 1/16W 680 OHM
RV19	AQ00194R	RES.CHIP 1/16W 1.0K OHM TAPE
RV20	AQ00194R	RES.CHIP 1/16W 1.0K OHM TAPE
RV21	AQ00194R	RES.CHIP 1/16W 1.0K OHM TAPE
RV22	AQ00191R	RES.CHIP 1/16W 750 OHM TAPE
RV23	0790024R	RES.CHIP 1/16W 100 OHM
RV24	0790024R	RES.CHIP 1/16W 100 OHM
RV25	0790024R	RES.CHIP 1/16W 100 OHM
RV26	0790043R	RES.CHIP 1/16W 2.7K OHM
RV27	0790028R	RES.CHIP 1/16W 220 OHM
RV30	AQ00174R	RES.CHIP 1/16W 180 OHM TAPE
RV31	0790037R	RES.CHIP 1/16W 1.0K OHM
RV32	AQ00192R	RES.CHIP 1/16W 820 OHM TAPE
RV33	0790051R	RES.CHIP 1/16W 10K OHM
RV34	0790024R	RES.CHIP 1/16W 100 OHM
RV35	0790051R	RES.CHIP 1/16W 10K OHM
RV36	0790041R	RES.CHIP 1/16W 1.8K OHM
RV37	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RV38	0790024R	RES.CHIP 1/16W 100 OHM
RV39	0790061R	RES.CHIP 1/16W 56K OHM
RV40	0790024R	RES.CHIP 1/16W 100 OHM
RV41	0790055R	RES.CHIP 1/16W 22K OHM
RV42	0790052R	RES.CHIP 1/16W 12K OHM
RV43	0790024R	RES.CHIP 1/16W 100 OHM
RV44	0790036R	RES.CHIP 1/16W 820 OHM
RV45	0790041R	RES.CHIP 1/16W 1.8K OHM
RV47	0790011R	RES.CHIP 1/16W 10 OHM
RV48	0790011R	RES.CHIP 1/16W 10 OHM
RV49	0790024R	RES.CHIP 1/16W 100 OHM
RV50	0790024R	RES.CHIP 1/16W 100 OHM
RV52	0790042R	RES.CHIP 1/16W 2.2K OHM
RV53	AQ00187R	RES.CHIP 1/16W 560 OHM TAPE
RV54	0790044R	RES.CHIP 1/16W 3.3K OHM
RV55	0790042R	RES.CHIP 1/16W 2.2K OHM
RV56	0790032R	RES.CHIP 1/16W 390 OHM

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
RV57	0790032R	RES.CHIP 1/16W 390 OHM	RW35	0790037R	RES.CHIP 1/16W 1.0K OHM
RV58	0790028R	RES.CHIP 1/16W 220 OHM	RW36	0790037R	RES.CHIP 1/16W 1.0K OHM
RV59	AQ00187R	RES.CHIP 1/16W 560 OHM TAPE	RW37	0790024R	RES.CHIP 1/16W 100 OHM
RV60	0790034R	RES.CHIP 1/16W 560 OHM	RW38	0790024R	RES.CHIP 1/16W 100 OHM
RV61	0790024R	RES.CHIP 1/16W 100 OHM	RW39	0790024R	RES.CHIP 1/16W 100 OHM
RV62	0790024R	RES.CHIP 1/16W 100 OHM	RW40	0790024R	RES.CHIP 1/16W 100 OHM
RV63	AQ00214R	RES.CHIP 1/16W 5.6K OHM	RW41	0790024R	RES.CHIP 1/16W 100 OHM
RV64	0790064R	RES.CHIP 1/16W 100K OHM	RW42	0790024R	RES.CHIP 1/16W 100 OHM
RV65	0790059R	RES.CHIP 1/16W 47K OHM	RW43	0790024R	RES.CHIP 1/16W 100 OHM
RV66	0790068R	RES.CHIP 1/16W 220K OHM	RW44	0790024R	RES.CHIP 1/16W 100 OHM
RV67	AQ00214R	RES.CHIP 1/16W 5.6K OHM	RW45	0790024R	RES.CHIP 1/16W 100 OHM
RV68	0790053R	RES.CHIP 1/16W 15K OHM	RW46	0790024R	RES.CHIP 1/16W 100 OHM
RV69	0790052R	RES.CHIP 1/16W 12K OHM	RW47	0790024R	RES.CHIP 1/16W 100 OHM
RV70	0790043R	RES.CHIP 1/16W 2.7K OHM	RW48	0790037R	RES.CHIP 1/16W 1.0K OHM
RV71	0790044R	RES.CHIP 1/16W 3.3K OHM	RW49	0790024R	RES.CHIP 1/16W 100 OHM
RV72	0790058R	RES.CHIP 1/16W 39K OHM	RW50	0790024R	RES.CHIP 1/16W 100 OHM
RV73	0790059R	RES.CHIP 1/16W 47K OHM	RW51	0790024R	RES.CHIP 1/16W 100 OHM
RV74	0790024R	RES.CHIP 1/16W 100 OHM	RW52	0790024R	RES.CHIP 1/16W 100 OHM
RV75	AQ00187R	RES.CHIP 1/16W 560 OHM TAPE	RW53	0790024R	RES.CHIP 1/16W 100 OHM
RV76	AQ00187R	RES.CHIP 1/16W 560 OHM TAPE	RW54	0790042R	RES.CHIP 1/16W 2.2K OHM
RV77	0790024R	RES.CHIP 1/16W 100 OHM	RW55	0790024R	RES.CHIP 1/16W 100 OHM
RV78	0790058R	RES.CHIP 1/16W 39K OHM	RW56	0790024R	RES.CHIP 1/16W 100 OHM
RV79	0790053R	RES.CHIP 1/16W 15K OHM	RW57	0790024R	RES.CHIP 1/16W 100 OHM
RV81	0790056R	RES.CHIP 1/16W 27K OHM	RW58	0790024R	RES.CHIP 1/16W 100 OHM
RV82	0790051R	RES.CHIP 1/16W 10K OHM	RW59	0790024R	RES.CHIP 1/16W 100 OHM
RV83	0790024R	RES.CHIP 1/16W 100 OHM	RW60	AQ00233R	RES.CHIP 1/16W 30K OHM TAPE
RV84	0790037R	RES.CHIP 1/16W 1.0K OHM	RW61	0790042R	RES.CHIP 1/16W 2.2K OHM
RV86	0790033R	RES.CHIP 1/16W 470 OHM	RW62	0790024R	RES.CHIP 1/16W 100 OHM
RV87	0790035R	RES.CHIP 1/16W 680 OHM	RW63	0790024R	RES.CHIP 1/16W 100 OHM
RV88	AQ00205R	RES.CHIP 1/16W 2.7K OHM TAPE	RW64	0790024R	RES.CHIP 1/16W 100 OHM
RV89	AQ00196R	RES.CHIP 1/16W 1.2K OHM TAPE	RW65	AQ00233R	RES.CHIP 1/16W 30K OHM TAPE
RV90	0790037R	RES.CHIP 1/16W 1.0K OHM	RW66	0790024R	RES.CHIP 1/16W 100 OHM
RV91	0790034R	RES.CHIP 1/16W 560 OHM	RW67	0790051R	RES.CHIP 1/16W 10K OHM
RV92	0790046R	RES.CHIP 1/16W 4.7K OHM	RW68	0790024R	RES.CHIP 1/16W 100 OHM
RV93	0790039R	RES.CHIP 1/16W 1.5K OHM	RW69	AQ00215R	RES.CHIP 1/16W 6.2K OHM TAPE
RV95	AQ00194R	RES.CHIP 1/16W 1.0K OHM TAPE	RW70	AQ00182R	RES.CHIP 1/16W 360 OHM TAPE
RV96	AQ00214R	RES.CHIP 1/16W 5.6K OHM	RW71	0790051R	RES.CHIP 1/16W 10K OHM
RV97	0790024R	RES.CHIP 1/16W 100 OHM	RW72	AQ00215R	RES.CHIP 1/16W 6.2K OHM TAPE
RV98	0790043R	RES.CHIP 1/16W 2.7K OHM	RW73	AQ00182R	RES.CHIP 1/16W 360 OHM TAPE
RV99	0790024R	RES.CHIP 1/16W 100 OHM	RW76	0790024R	RES.CHIP 1/16W 100 OHM
RW00	0790049R	RES.CHIP 1/16W 8.2K OHM	RW77	0790053R	RES.CHIP 1/16W 15K OHM
RW01	0790054R	RES.CHIP 1/16W 18K OHM	RW78	0790024R	RES.CHIP 1/16W 100 OHM
RW02	0790058R	RES.CHIP 1/16W 39K OHM	RW96	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RW03	0790059R	RES.CHIP 1/16W 47K OHM	RW97	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RW04	0790059R	RES.CHIP 1/16W 47K OHM	RW98	0790024R	RES.CHIP 1/16W 100 OHM
RW05	0790055R	RES.CHIP 1/16W 22K OHM	RW99	0790024R	RES.CHIP 1/16W 100 OHM
RW06	0790024R	RES.CHIP 1/16W 100 OHM	RX01	0790033R	RES.CHIP 1/16W 470 OHM
RW07	0790024R	RES.CHIP 1/16W 100 OHM	RX02	0790033R	RES.CHIP 1/16W 470 OHM
RW08	0790042R	RES.CHIP 1/16W 2.2K OHM	RX03	0790024R	RES.CHIP 1/16W 100 OHM
RW09	0790051R	RES.CHIP 1/16W 10K OHM	RX04	0790024R	RES.CHIP 1/16W 100 OHM
RW10	0790035R	RES.CHIP 1/16W 680 OHM	RX11	0790033R	RES.CHIP 1/16W 470 OHM
RW11	AQ00205R	RES.CHIP 1/16W 2.7K OHM TAPE	RX12	0790033R	RES.CHIP 1/16W 470 OHM
RW12	0790035R	RES.CHIP 1/16W 680 OHM	RX13	0790024R	RES.CHIP 1/16W 100 OHM
RW13	0790034R	RES.CHIP 1/16W 560 OHM	RX14	0790024R	RES.CHIP 1/16W 100 OHM
RW14	0790051R	RES.CHIP 1/16W 10K OHM	RX15	0790024R	RES.CHIP 1/16W 100 OHM
RW15	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RX16	0790055R	RES.CHIP 1/16W 22K OHM
RW16	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RX17	0790055R	RES.CHIP 1/16W 22K OHM
RW17	0790024R	RES.CHIP 1/16W 100 OHM	RX18	0790046R	RES.CHIP 1/16W 4.7K OHM
RW18	0790024R	RES.CHIP 1/16W 100 OHM	RX19	0790024R	RES.CHIP 1/16W 100 OHM
RW19	0790024R	RES.CHIP 1/16W 100 OHM	RX20	0790055R	RES.CHIP 1/16W 22K OHM
RW20	0790042R	RES.CHIP 1/16W 2.2K OHM	RX21	0790055R	RES.CHIP 1/16W 22K OHM
RW21	0790044R	RES.CHIP 1/16W 3.3K OHM	RX22	0790046R	RES.CHIP 1/16W 4.7K OHM
RW22	0790024R	RES.CHIP 1/16W 100 OHM	RX23	0790024R	RES.CHIP 1/16W 100 OHM
RW23	0790024R	RES.CHIP 1/16W 100 OHM	RX24	0790024R	RES.CHIP 1/16W 100 OHM
RW24	0790024R	RES.CHIP 1/16W 100 OHM	RX30	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE
RW25	0790024R	RES.CHIP 1/16W 100 OHM	RX31	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE
RW26	0790024R	RES.CHIP 1/16W 100 OHM	RX32	AQ00164R	CHIP RESITOR 1/16W 75OHM TAPE
RW27	0790037R	RES.CHIP 1/16W 1.0K OHM	RX33	0790024R	RES.CHIP 1/16W 100 OHM
RW28	0790037R	RES.CHIP 1/16W 1.0K OHM	RX34	0790024R	RES.CHIP 1/16W 100 OHM
RW29	0790037R	RES.CHIP 1/16W 1.0K OHM	RX35	0790024R	RES.CHIP 1/16W 100 OHM
RW30	0790024R	RES.CHIP 1/16W 100 OHM	RX36	0790024R	RES.CHIP 1/16W 100 OHM
RW31	0790024R	RES.CHIP 1/16W 100 OHM	RX37	0790024R	RES.CHIP 1/16W 100 OHM
RW32	0790024R	RES.CHIP 1/16W 100 OHM	RX38	0790024R	RES.CHIP 1/16W 100 OHM
RW33	0790024R	RES.CHIP 1/16W 100 OHM	RX39	0790037R	RES.CHIP 1/16W 1.0K OHM
RW34	0790024R	RES.CHIP 1/16W 100 OHM	RX40	0790037R	RES.CHIP 1/16W 1.0K OHM

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SYMBOL NO.	PART NO.	PART DESCRIPTION
RX41	0790037R	RES.CHIP 1/16W 1.0K OHM
RX42	0790037R	RES.CHIP 1/16W 1.0K OHM
RX43	0790037R	RES.CHIP 1/16W 1.0K OHM
RX44	0790037R	RES.CHIP 1/16W 1.0K OHM
RX45	0790077R	RES.CHIP 1/16W 1.0M OHM
RX46	0790077R	RES.CHIP 1/16W 1.0M OHM
RX47	0790077R	RES.CHIP 1/16W 1.0M OHM
RX48	0790077R	RES.CHIP 1/16W 1.0M OHM
RX50	0790024R	RES.CHIP 1/16W 100 OHM
RX51	0790037R	RES.CHIP 1/16W 1.0K OHM
RX52	0790024R	RES.CHIP 1/16W 100 OHM
RX53	0790037R	RES.CHIP 1/16W 1.0K OHM
		RELAY / SWITCH
⚠ S901	FJ00142	RELAY ALKS329
SM07	2634621	SWITCH BLOCK VR
		TRANSFORMER
⚠ T901	BT02211	SWITCHIG TRANSFORMER
		TUNERS
U301	HC00495	FE-V0-A32FT
U302	HC00504	FE-VO-A69FT
		CRYSTALS
X002	BL01181R	CSCTE16M0V51-R0
X101	BP01311R	CSTLS16M0X
X201	BP01313R	CSTLS8M00G53
X250	BK00191R	CHIP CERAMIC FILTER NFL21SP506X1C3D
X251	BK00191R	CHIP CERAMIC FILTER NFL21SP506X1C3D
XV01	BP01191	OSCILLATOR 20HHZ HC-49US
XV02	BP01241	OSCILLATOR 3.58 49U
XV03	BP01241	OSCILLATOR 3.58 49U
XV04	2168771	VFL-CSB503F30
XV05	2168771	VFL-CSB503F30
XV06	BE00431R	6MHZ LOW PASS LC FILTER
XV07	BE00431R	6MHZ LOW PASS LC FILTER
XV08	BE00431R	6MHZ LOW PASS LC FILTER
XV09	BE00431R	6MHZ LOW PASS LC FILTER
		(PSB PW1 AUDIO)
		CAPACITORS
C401	0893135R	CAP 1608CHIP 470PFJCH 50V TAPE
C402	0893135R	CAP 1608CHIP 470PFJCH 50V TAPE
C403	AD00447R	CEC4R7M25-EWCT
C404	AD00447R	CEC4R7M25-EWCT
C405	AA01814R	CCC104K25-B-16CT
C406	AA01814R	CCC104K25-B-16CT
C407	0893211R	CAP 1608CHIP 1500PFKB 50V TAPE
C408	AA01814R	CCC104K25-B-16CT
C409	AD00478R	CEC4R7M50-EWCT
C410	AD00478R	CEC4R7M50-EWCT
C411	AA01134R	CERAMIC CAPACITOR(0.33UF 6.3V)
C412	AA01813R	CCC223K50-B-16CT
C413	AA01812R	CCC153K50-B-16CT
C414	AA01814R	CCC104K25-B-16CT
C415	0893129R	CAP 1608CHIP 180PFJCH 50V TAPE
C416	0893129R	CAP 1608CHIP 180PFJCH 50V TAPE
C417	0800353R	CAP.-ELECTRO.470UF-M 16V
C418	0893211R	CAP 1608CHIP 1500PFKB 50V TAPE
C419	AA01814R	CCC104K25-B-16CT
C420	AD00447R	CEC4R7M25-EWCT
C421	AD00447R	CEC4R7M25-EWCT
C422	AA01814R	CCC104K25-B-16CT
C423	AA01814R	CCC104K25-B-16CT
C424	AA01814R	CCC104K25-B-16CT
C425	AA01814R	CCC104K25-B-16CT
C426	AA01814R	CCC104K25-B-16CT
C427	AA01814R	CCC104K25-B-16CT
C428	AA01802R	CCC103K50-B-16CTMCH18
C429	AD00475R	CEC010M50-EWCT
C430	AD00436R	CEC100M16-EWCT
C431	AD00436R	CEC100M16-EWCT
C432	0800344R	CAP.-ELECTRO. 330UF-M(SMG) 16V
C435	AD00436R	CEC100M16-EWCT
C436	AD00478R	CEC4R7M50-EWCT
C437	AD00478R	CEC4R7M50-EWCT
C438	0893127R	CAP 1608CHIP 120PFJCH 50V TAPE
C439	0893127R	CAP 1608CHIP 120PFJCH 50V TAPE
C440	0880207R	CAP.-POLYESTER 1.0UF-J 50V
C441	0880207R	CAP.-POLYESTER 1.0UF-J 50V
C442	0880207R	CAP.-POLYESTER 1.0UF-J 50V
C443	0880207R	CAP.-POLYESTER 1.0UF-J 50V
C444	0880198R	CAP.-PLOY. 0.22UF-J 50V
C445	0880198R	CAP.-PLOY. 0.22UF-J 50V
C446	AD00436R	CEC100M16-EWCT
C447	AD00436R	CEC100M16-EWCT
C448	0800359R	CAP.-ELECTRO. 1000UF-M 10V
C449	0800359R	CAP.-ELECTRO. 1000UF-M 10V
C450	0800359R	CAP.-ELECTRO. 1000UF-M 10V
C451	0800359R	CAP.-ELECTRO. 1000UF-M 10V
C452	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C453	AA01814R	CCC104K25-B-16CT
C454	AD00475R	CEC010M50-EWCT
C455	AA01814R	CCC104K25-B-16CT
C456	AA01814R	CCC104K25-B-16CT
C457	AA01814R	CCC104K25-B-16CT
C458	AD00475R	CEC010M50-EWCT
C459	AA01814R	CCC104K25-B-16CT
C460	AA01814R	CCC104K25-B-16CT
C461	0800353R	CAP.-ELECTRO.470UF-M 16V
C462	0800353R	CAP.-ELECTRO.470UF-M 16V
C463	AD00449R	CEC220M25-EWCT
C464	AA01814R	CCC104K25-B-16CT
C466	AA01802R	CCC103K50-B-16CTMCH18
C467	0800353R	CAP.-ELECTRO.470UF-M 16V
C468	AA01814R	CCC104K25-B-16CT
C473	0800359R	CAP.-ELECTRO. 1000UF-M 10V
C474	0800359R	CAP.-ELECTRO. 1000UF-M 10V
C475	0800359R	CAP.-ELECTRO. 1000UF-M 10V
C476	0800359R	CAP.-ELECTRO. 1000UF-M 10V
C481	AD00436R	CEC100M16-EWCT
C482	0880009R	CAP.-POLYESTER 0.01UF-K 50V
C483	0880003R	MYLAR CAPACITOR 0.001U
C484	0893217R	CAP 1608CHIP 4700PFKB 50V TAPE
C485	AD00447R	CEC4R7M25-EWCT
C486	AD00447R	CEC4R7M25-EWCT
C487	AD00447R	CEC4R7M25-EWCT
C488	AD00447R	CEC4R7M25-EWCT
C489	AD00447R	CEC4R7M25-EWCT
CF20	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CF27	0800324R	CAP.-ELECTRO. 100UF-M(SMG) 6.3V
CF28	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)
CF29	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)
CF30	0800324R	CAP.-ELECTRO. 100UF-M(SMG) 6.3V
CF31	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)
CF32	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)
CF33	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)
		DIODES
D401	CC00632R	DIODE.CHIP RB491D (20V)
D402	CC00632R	DIODE.CHIP RB491D (20V)
D403	CC00632R	DIODE.CHIP RB491D (20V)
D404	CC00632R	DIODE.CHIP RB491D (20V)
D405	CC00003R	DIODE.CHIP 1SS355
D406	CC00003R	DIODE.CHIP 1SS355
D407	2339491M	DIODE AM01Z (200 TAPE) 1A
D408	CC00632R	DIODE.CHIP RB491D (20V)
D409	CC00632R	DIODE.CHIP RB491D (20V)
D410	CC00826R	ZENER.CHIP UDZ 7.5B
D411	CC00632R	DIODE.CHIP RB491D (20V)
D412	CC00632R	DIODE.CHIP RB491D (20V)
D413	CC00822R	ZENER.CHIP UDZ 5.1B

PRODUCT SERVICE NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	PART DESCRIPTION
D414	CC00822R	ZENER.CHIP UDZ 5.1B
DH101	CH01042G	DIODE RK34 LF-A4
		CONNECTORS
EAD1	EA01252R	1.5MM PITCH 12P CONNECTOR BASE SM3
EAF1	EA01249R	1.5MM PITCH 10P CONNECTOR BASE
EAJ1	2959055	CONNECTOR-6P(PH)
EAS1	2902261	PLUG PIN SUB MINI 2P
EAS2	2902262	PLUG PIN SUB MINI 3P
EAS3	2959051	PIN POST (2P)
EAS4	2959051	PIN POST (2P)
EJA1	2959055	CONNECTOR-6P(PH)
EJF1	EA01246R	1.5MM PITCH 7P CONNECTOR BASE SM3
EJF2	EA01251R	1.5MM PITCH 11P CONNECTOR BASE
EJF3	EA00932R	0.5MM PITCH FPC CONNECTOR FH12-50S-0.5SV
EJF4	EA01252R	1.5MM PITCH 12P CONNECTOR BASE SM3
EJF5	EA01248R	1.5MM PITCH 9P CONNECTOR BASE SM3
EJF6	EA01247R	1.5MM PITCH 8P CONNECTOR BASE
EJP1	2902268	PLUG PIN SUB MINI 9P
EJP2	2902273	PLUGPIN SUB MINI 13P
EVJ1	ED04252U	1.27MM PITCH 5061 TYPE 80P B T
		INTEGRATED CIRCUITS
IC401	CK39281R	ANALOG MONOLITHIC IC(NJW1136)
IC402	CK35311R	NJM2192AM
IC403	CK31991R	ANALOG MONOLITHIC IC BU4052BCF-E2
IC404	CK39291R	ANALOG MONOLITHIC IC(TA2021)
IF06	CP06541F	IC REG.(SI-3033C)
IF07	CP06541F	IC REG.(SI-3033C)
IF08	CK38372R	DIGITAL MONO IC SI-3018KM
		COILS / RELAYS / HEAT SINK
L401	BH01811R	COIL 10UH 2.1A
L402	BH01811R	COIL 10UH 2.1A
L403	BH01811R	COIL 10UH 2.1A
L404	BH01811R	COIL 10UH 2.1A
L409	BZ01421R	COIL FERRITE BEAD BL02RN1-R62T4
L410	BZ01421R	COIL FERRITE BEAD BL02RN1-R62T4
L411	BA00712R	3225 CHIP COIL 47UH
L413	BZ01421R	COIL FERRITE BEAD BL02RN1-R62T4
RY401	FJ00291	RELAY DQ1SU
RY402	FJ00291	RELAY DQ1SU
N401	MA01681	PDP AUDIO HEAT SINK
J401	2672967	JAK-YKC21-1P-BLK
		TRANSISTORS
Q401	1323293R	TRS.CHIP 2SC4617 TL (R/S)
Q402	1323293R	TRS.CHIP 2SC4617 TL (R/S)
Q403	CA00981R	TRS.CHIP DTC114EE TL
Q404	CA00771R	TRS.CHIP DTC323TK
Q405	CA00771R	TRS.CHIP DTC323TK
Q407	CA00771R	TRS.CHIP DTC323TK
Q408	CA00981R	TRS.CHIP DTC114EE TL
		RESISTORS
R401	0790028R	RES.CHIP 1/16W 220 OHM
R402	0790028R	RES.CHIP 1/16W 220 OHM
R403	0790068R	RES.CHIP 1/16W 220K OHM
R404	0790068R	RES.CHIP 1/16W 220K OHM
R405	0790024R	RES.CHIP 1/16W 100 OHM
R406	0790024R	RES.CHIP 1/16W 100 OHM
R407	0790061R	RES.CHIP 1/16W 56K OHM
R408	0196096R	RES.-1608CHIP 1/16W 13K-J TAPE
R409	0196123R	RES.-1608CHIP 1/16W 160K-J TAPE
R410	0196106R	RES 1608 CHIP 1/16W 36KJ TAPE
R411	0196091R	RES.-1608CHIP 1/16W 9.1K-J TAPE
R412	0196119R	RES.-1608CHIP 1/16W 110K-J TAPE
R413	0790051R	RES.CHIP 1/16W 10K OHM

SYMBOL NO.	PART NO.	PART DESCRIPTION
R414	0790036R	RES.CHIP 1/16W 820 OHM
R415	0790036R	RES.CHIP 1/16W 820 OHM
R416	0196077R	RES.-1608CHIP 1/16W 2.4K-J TAPE
R417	0790047R	RES.CHIP 1/16W 5.6K OHM
R418	0790037R	RES.CHIP 1/16W 1.0K OHM
R419	0790037R	RES.CHIP 1/16W 1.0K OHM
R420	0790037R	RES.CHIP 1/16W 1.0K OHM
R421	0790048R	RES.CHIP 1/16W 6.8K OHM
R422	0790048R	RES.CHIP 1/16W 6.8K OHM
R423	0790037R	RES.CHIP 1/16W 1.0K OHM
R424	0790037R	RES.CHIP 1/16W 1.0K OHM
R425	0790037R	RES.CHIP 1/16W 1.0K OHM
R426	0790037R	RES.CHIP 1/16W 1.0K OHM
R427	0196098R	RES.-1608CHIP 1/16W 16K-J TAPE
R428	0196098R	RES.-1608CHIP 1/16W 16K-J TAPE
R429	0196108R	RES.-1608CHIP 1/16W 43K-J TAPE
R430	0196108R	RES.-1608CHIP 1/16W 43K-J TAPE
R431	0113701M	RESISTOR CARBON FILM SRD1/2P-B 10-J
R432	0113701M	RESISTOR CARBON FILM SRD1/2P-B 10-J
R433	0790051R	RES.CHIP 1/16W 10K OHM
R434	0790051R	RES.CHIP 1/16W 10K OHM
R435	0790042R	RES.CHIP 1/16W 2.2K OHM
R436	0790064R	RES.CHIP 1/16W 100K OHM
R437	0790024R	RES.CHIP 1/16W 100 OHM
R438	0790059R	RES.CHIP 1/16W 47K OHM
R439	0790049R	RES.CHIP 1/16W 8.2K OHM
R440	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R441	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R442	0790052R	RES.CHIP 1/16W 12K OHM
R446	0790046R	RES.CHIP 1/16W 4.7K OHM
R447	0790046R	RES.CHIP 1/16W 4.7K OHM
R448	0790044R	RES.CHIP 1/16W 3.3K OHM
R458	0790051R	RES.CHIP 1/16W 10K OHM
R459	0790047R	RES.CHIP 1/16W 5.6K OHM
R460	0790024R	RES.CHIP 1/16W 100 OHM
R462	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R463	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R464	0790046R	RES.CHIP 1/16W 4.7K OHM
R465	0790064R	RES.CHIP 1/16W 100K OHM
RF58	0790024R	RES.CHIP 1/16W 100 OHM
RF59	0790024R	RES.CHIP 1/16W 100 OHM

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AVC-75 AVC UNIT (BW00931)

PLASMA PANEL PWBs
FPF23R-ABL0001 (LEFT) ADDRESS BUS BOARD
FPF23R-ABR0002 (RIGHT) ADDRESS BUS BOARD
FPF23R-LGC0005 LOGIC BOARD
FPF23R-XSS0005 X-SUS BOARD
FPF23R-YSS0006 Y-SUS BOARD

CHASSIS PWBs
HA01262 POWER UNIT
HL02061 REMOTE CONTROL UNIT CLU-3841WL
JP07731 SIGNAL/AUDIO PWB ASSY
JP07741 FILTER PWB ASSY
EF22292 POWER SWIVEL CABLE

55HDT51

AVC-75 AVC UNIT (BW00931)

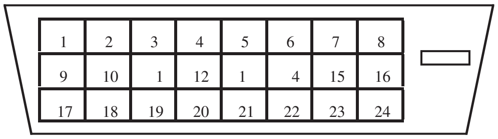
PLASMA PANEL PWBs
FPF24R-XSS0007 X-SUS BOARD
FPF24R-YSS0008 Y-SUS BOARD
FPF24RABD000711 ABUS-D1 BOARD
FPF24RABD000712 ABUS-D2 BOARD
FPF24RABD000713 ABUS-D3 BOARD
FPF24RABD000714 ABUS-D4 BOARD
FPF24RABU000701 ABUS-U1 BOARD
FPF24RABU000702 ABUS-U2 BOARD
FPF24RABU000703 ABUS-U3 BOARD
FPF24RABU000704 ABUS-U4 BOARD
FPF24RLGC002502 LOGIC BOARD

CHASSIS PWBs
HA01371 POWER UNIT
HL02061 REMOTE CONTROL UNIT CLU-3841WL
JP07751 AUDIO PWB ASSY
JP07761 FILTER PWB ASSY
JP07771 SWIVEL PWB ASSY
EF22292 POWER SWIVEL CABLE

Function of Digital Interface

(1) Specification of TMDS connector (24P DVI-D)

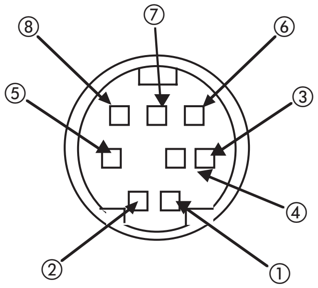
No.	Signal name	Function	Remarks
1	T X 2 -	Difference data	AVC→PDP
2	T X 2 +	Difference data	AVC→PDP
3	T X 2 Shield	Shield ground	GND
4	NC		
5	NC		
6	SCLH	PDP u-con clock	PDP→AVC
7	SDAH	PDP u-con data	PDP→AVC
8	NC		
9	T X 1 -	Difference data	AVC→PDP
10	T X 1 +	Diference data	AVC→PDP
11	T X 1 Shield	Shield ground	GND
12	NC		
13	NC		
14	AVDET	AVC Voltage det.	ËAVC→PDP
15	GND		
16	HPDET	Conn. Connection det.	PDP→AVC
17	T X 0 -	Difference data	AVC→PDP
18	T X 0 +	Difference data	AVC→PDP
19	T X 0 Shield	Shield ground	GND
20	NC		
21	NC		
22	T X C Shield	Shield ground	GND
23	T X C +	Difference clock	AVC→PDP
24	T X C -	Difference clock	AVC→PDP
	GND	GND	



FRONT VIEW

(2) Sound/Control connector pin specification (8 pin DIN)

No.	Signal name	Function	Remarks
1	TXDO	u-con data transp.	AVC→PDP
2	RXDO	u-con data trans.	PDP→AVC
3	PARITY	Field info.	AVC→PDP
4	REM PDP	PDP I/R Signal	PDP→AVC
5	AUDIO L	Audio L	AVC→PDP
6	AUDIO R	Audio R	AVC→PDP
7	PDDET	Detector PDP pow.	PDP→AVC
8	AVDET2	Detector AVC pow.	AVC→PDP
frame	GND	GND	



FRONT VIEW

QUICK REFERENCE PARTS LIST
AVC IC'S & UNITS

No.	Cir.No.	P#	Description	Function	PWB ASSY	Remarks
1	H901	CW00352	UPM0518SA	SWITCHING REGULATOR	POWER	
2	I901	CZ00869	STR-F6668B(LF1351)	SWITCHING REGULATOR	POWER	
3	I902	CP07851	TLP421	OPT.ISOLATOR	POWER	
4	I905	CP07851	TLP421	OPT.ISOLATOR	POWER	
5	I930	CK37171R	SPI-8010A	+5.5V REGULATOR	POWER	
6	I931	CP08111U	SI-8010GL	+1.8V REGULATOR	POWER	
7	I932	CK37194R	SI-3050LSA-TL	+5.0V REGULATOR	POWER	
8	I933	CK37162R	SI-8033JD	+3.3V REGULATOR	POWER	
9	DM01	CH02031R	SPR-505MVW	LED	CONTROL	
10	DM02	CH02721	PNZ313B	I/R Receiver	CONTROL	
11	HM01	CZ01091	GP1UA261XK	I/R Receiver	CONTROL	
12	I001	CK38641U	M306V7FHFP-FLASH	TV u-com	AV	
13	I002	CK37051R	BD4729G-TR	RESET IC	AV	
14	I003	CK35894R	CAT24WC32J1	EEPROM	AV	
15	I004	CK31992R	BU4053BCF-E2	OSD/FLASH SELECTOR	AV	
16	I201	CK31992R	BU4053BCF-E2	CCD SELECTOR	AV	
17	I202	CK37412U/22U	S3*80F9XKN-QZR7	IR-BLASTER	AV	
18	I203	CK32271R	MC74VHCT244ADTR2	OCTAL BUS BUFFER	AV	
19	I204	CK31992R	BU4053BCF-E2	BLASTER/ R/C SELECTOR	AV	
20	I206	CK32271R	MC74VHCT244ADTR2	OCTAL BUS BUFFER	AV	
21	I207	CK01172R	HD74HC221FPEL	H-SYNC PHASE SHIFT	AV	
22	I208	CK35893R	CAT24WC16J1	EEPROM	AV	
23	I401	CK31991R	BU4052BCF-E2	AUDIO SELECTOR	AV	
24	I402	CP02601	AN5285K	PERFECT VOL.	AV	
25	I403	CK31031R	BA3530FS-E2	HEAD PHONE AMP.	AV	
26	I904	CK37212R	TK11125CSCL	+2.5V REGULATOR	AV	
27	I905	CK37194R	SI-3050LSA-TL	+5.0V REGULATOR	AV	
28	I906	CK37194R	SI-3050LSA-TL	+5.0V REGULATOR	AV	
29	I907	CK38377R	SI-3090KM	+9.0V REGULATOR	AV	
30	I908	CK38377R	SI-3090KM	+9.0V REGULATOR	AV	
31	I909	CK38377R	SI-3090KM	+9.0V REGULATOR	AV	
32	I910	CK37193R	SI-3033LSA-TL	+3.3V REGULATOR	AV	
33	IJ01	CK35163R	SII907BCQ52	DVI(TMDS) RECEIVER	AV	
34	IJ02	CK37051R	BD4729G-TR	RESET IC	AV	
35	IJ03	CA01301R	NDC7002N	BUS LEVEL CHANGE	AV	
36	IJ04	CP05273U	M24C02-BN6	EEPROM for DDC	AV	
37	IJ05	CK37194R	SI-3050LSA-TL	+5.0V REGULATOR	AV	
38	IJ06	CK37193R	SI-3033LSA-TL	+3.3V REGULATOR	AV	
39	IM01	CK38791R	NJM2137V	Amplifier	CONTROL	
40	IV01	CK07631R	TC90A45F	2L COMB. For SUB	AV	
41	IW01	CK36951U	UPD64083GF-3BA	3D Y/C SEP.	AV	
42	IW02	CK06097R	PST9127NR	RESET IC	AV	
43	IX01	CK30941U	CXA2069Q	A/V SELECTOR	AV	
44	IX02	CK34811U	MM1519XQ	YPbPr SELECTOR	AV	
45	IX03	CK38101R	NJM2584M(TE1)	YPbPr SELECTOR	AV	
46	IZ01	CK38721R	TA1383FG	SUB VIDEO/CHROMA	AV	
47	IZ02	CK38721R	TA1383FG	MAIN VIDEO/CHROMA	AV	
48	IZ03	CK31041R	TA1287F(EL)	MAIN CCD MIXER	AV	
49	IZ04	CK38101R	NJM2584M(TE1)	YPbPr SELECTOR	AV	
50	IZ05	CK31041R	TA1287F(EL)	SUB CCD MIXER	AV	
51	IZ06	CK31992R	BU4053BCF-E2	M/S CCD SYNC SELECTOR	AV	
52	U101	HC00512	F-E-ENGE6106DR	1st Tuner	AV	
53	U102	HC00463	F-E-ENG36614GR	2nd Tuner	AV	
54	A21	CS00721	HCP131 ASS'Y	Flex Controller	AVC FINAL	
55	EANT	HP00771	UNX ANT SW	ANT SW BOX	AVC FINAL	

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